

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

EQUITABLE RESOURCES ENERGY COMPANY, Balcron Oil

3. ADDRESS OF OPERATOR

P.O. Box 21017; Billings, MT 59104

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

SW NW Section 17, T9S, R17E

1980' FNL, 660' FWL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

From Myton, Utah, approximately 16 miles southwest.

16. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

6,000'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 5407.9'

22. APPROX. DATE WORK WILL START\*

Upon APD approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
		See attached		

EXHIBITS ATTACHED

"A" PROPOSED DRILLING PROGRAM  
"B" PROPOSED SURFACE USE PROGRAM  
"C" GEOLOGIC PROGNOSIS  
"D" DRILLING PROGRAM/CASING DESIGN  
"E" HAZMAT DECLARATION  
"F" SURVEY PLAT  
"G" RIG LAYOUT

"H" BOPE DIAGRAM  
"I" EXISTING ROADS (Map A)  
"J" PLANNED ACCESS (Map B)  
"K" EXISTING WELLS (Map C)  
"L" CUT & FILL DIAGRAM  
"M" ARCHEOLOGY REPORT  
"N" PROPOSED PRODUCTION FACILITY DIAGRAM

RECEIVED  
DEC 14 1993  
DIVISION OF  
MINING

SELF CERTIFICATION: I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT 0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Coordinator of Environmental  
and Regulatory Affairs

SIGNED

*Bobbie Schuman*

TITLE

DATE

December 13, 1993

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

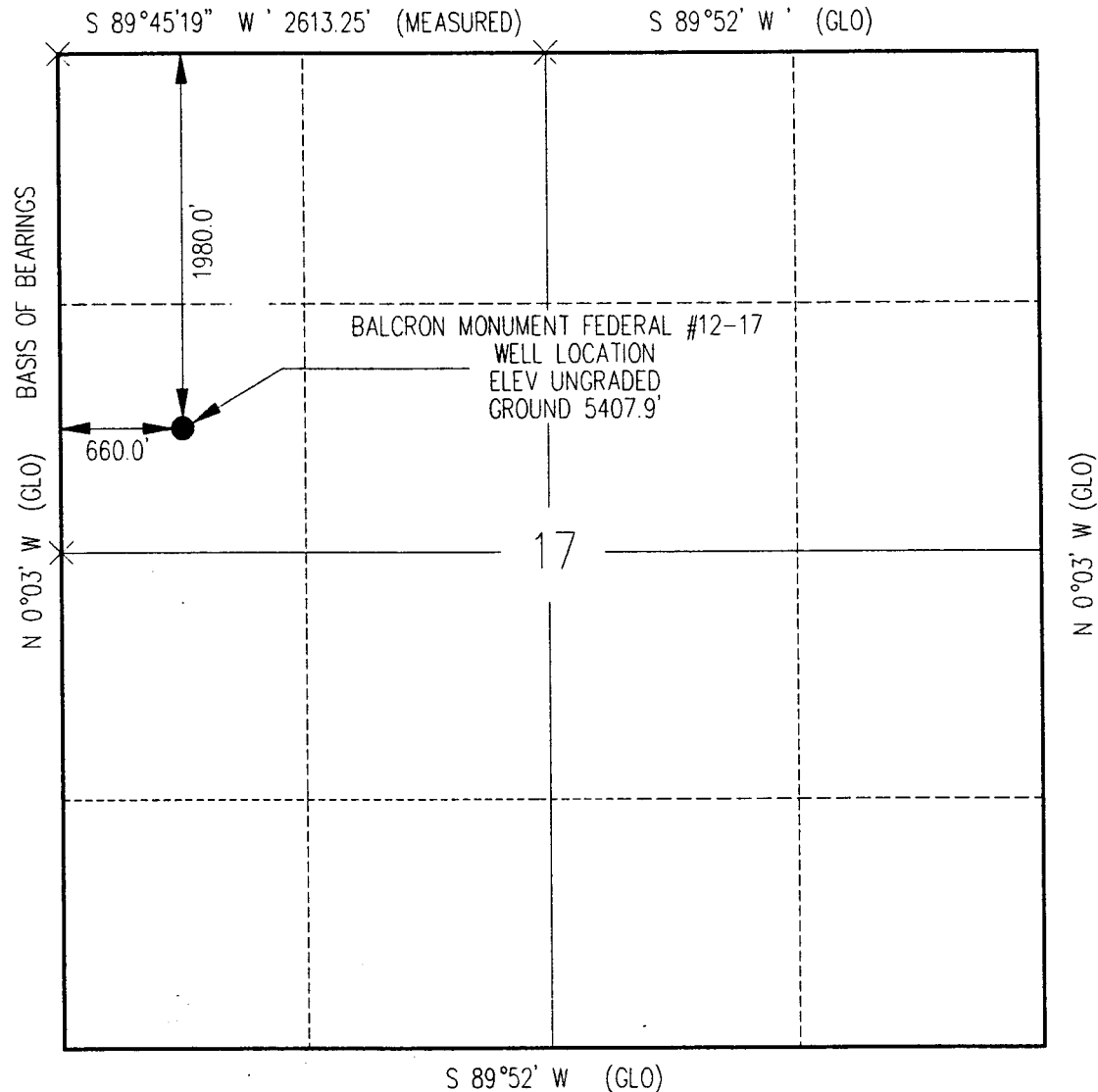
\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

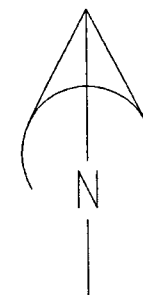
T9S, R17E, S.L.B. &amp; M.

EQUITABLE RESOURCES ENERGY CO.

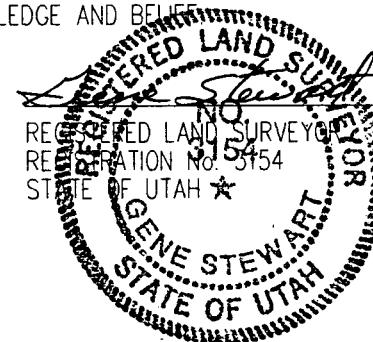
WELL LOCATION, BALCRON MONUMENT FEDERAL #12-17,  
LOCATED AS SHOWN IN THE SW 1/4 NW 1/4  
OF SECTION 17, T9S, R17E, S.L.B. & M,  
DUCHESNE COUNTY UTAH.



X = SECTION CORNERS LOCATED  
BASIS OF BEARINGS; G.L.O. PLAT 1911  
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF.



WEATHER: CLEAR & WARM
DATE: 11/6/93
SCALE: 1" = 1000'
SURVEYED BY: GS HW
FILE: 12-17



EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Monument Federal #12-17  
SW NW Section 17-T9S-R17E  
Duchesne County, Utah

In accordance with requirements outlined in 43 CFR 3162-3.1 (d):

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

2. ESTIMATED DEPTHS OF ANTICIPATED OIL, GAS OR WATER:

See Geologic Prognosis (EXHIBIT "C")

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

- a. EXHIBIT "H" is a schematic of the BOP equipment and choke manifold. A 2M system will be used. The BOPE will be installed after setting 8-5/8" casing at 260'. The blind rams and pipe rams will be tested to 1500 psi. Pipe rams will be operationally checked each 24-hour period and blind rams each time pipe is pulled out of the hole.
- b. The BOPE will be tested to 1500 psi when initially installed, whenever any seal subject to test pressure is broken, and following related repairs. The pipe and blind rams will be activated at least weekly and on every trip the pipe and blind rams will be activated.
- c. An accumulator of sufficient capacity to open the hydraulically-controlled choke valve lines (if so equipped), close all rams, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps will be installed during the drilling of this well.
- d. An upper kelly cock will be used during the drilling of this well.
- e. Visual mud monitoring equipment will be used to detect volume changes indicating loss or gain in circulating fluid volume.
- f. Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control.

4. PROPOSED CASING AND CEMENTING PROGRAM:

- a. Surface casing will be set in the Uinta formation to approximately 260' and cemented to surface.
- b. All potentially productive hydrocarbon zones will be isolated.
- c. Casing designs are based on factors of burst: 1.25, collapse: 1.125, and joint strength: 1.8.
- d. All casing strings will be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi whichever is greater (not to exceed 70% of yield).
- e. For details of casing, cement program, drilling fluid program, and proposed mud program, see the following two attachments:

Drilling Program/Casing Design (EXHIBIT "D")  
Geologic Prognosis (EXHIBIT "C")

5. HAZARDOUS PRESSURES, TEMPERATURES, FLUIDS/GASSES EXPECTED:

- a. Expected bottom hole temperature is 125 degrees F. Expected bottom hole pressure is 1500 psi.
- b. No abnormal pressures or temperatures have been noted or reported in wells drilled to the Green River formation in this area.
- c. No dangerous levels of hydrogen sulfide, hazardous fluids, or gasses have been found, reported, or known to exist at the depth to be drilled in this well, in this area.

6. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

- a. The drilling operations for this well will begin as soon after APD approval as possible.
- b. These drilling operations should be completed within 12 days after spudding the well depending on weather and hole conditions.
- c. If the well is productive, a sundry notice and plat showing exact installed facilities will be submitted.
- d. If this well is non-productive, a sundry notice will be filed with the BLM District Office within 30 days following completion of the well for abandonment.



**Multi-Point Surface Use and Operations Plan**

EQUITABLE RESOURCES ENERGY COMPANY  
BALCRON OIL DIVISION  
BALCRON MONUMENT FEDERAL #12-17  
SW NW SECTION 17, T9S, R17E  
DUCHESNE COUNTY, UTAH

**1. Existing Roads: Refer to Maps "A" & "B" (shown in RED)**

- A. The proposed well site is staked and four reference stakes are present. 150' & 200' SE and 225' & 275' SW.
- B. The Monument Federal #12-17 is located 16 miles Southwest of Myton Utah in the SW1/4 NW1/4 Section 17, T9S, R17E, SLB&M, Duchesne County, Utah. To reach the 12-17, proceed West from Myton, Utah along U.S. Highway 40 for 1.6 miles to the junction of this highway and Sand Wash road; Proceed South along the Sand Wash road approximately 10.6 miles to a road intersection, turn right and continue 2.0 miles to proposed access road sign. Follow flags 900 feet to location.
- C. Access roads - refer to Maps "A" and "B".
- D. Access roads within a one-mile radius - refer to map "B".
- E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the well location.

**2. Planned Access Roads: Refer to Map "B"**

Approximately 900 feet of new road construction will be required for access to the proposed well location.

- A. Width - maximum 30-foot overall right-of-way with an 18-foot road running surface, crowned & ditched and/or sloped and dipped.

- B. Construction standard - the access road will be constructed so as to conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. (1989)

The road will be constructed to meet the standards of the anticipated traffic flow and all-weather requirements. Construction will include ditching, draining, crowning, and capping or sloping and dipping the roadbed as necessary to provide a well constructed and safe road. Prior to construction/upgrading, the roadway shall be cleared of any snow cover and allowed to dry completely. Traveling off of the thirty (30) foot right-of-way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossing shall be designed so they will not cause siltation or the accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts.

Upgrading shall not be allowed during muddy conditions.

Should mud holes develop, they shall be filled in and detours around them avoided.

- C. Maximum grade - Less than 8%
- D. Turnouts - no turnouts will be required on this access road.
- E. Drainage design - the access road will be crowned and ditched or sloped and dipped, and water turnouts installed as necessary to provide for proper drainage along the access road route.
- F. Culverts, cuts and fills - no culverts will be required. There are no major cuts and/or fills on/along the proposed access road route.
- G. Surface materials - all construction materials will be native material taken from onsite.
- H. Gates, cattleguards or fence cuts - none required.
- I. Road maintenance - during both the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and

will be maintained in accordance with the original construction standards. All drainage ditches and culverts will be kept clear and free-flowing, and will also be maintained in accordance with the original construction standards. The access road right-of-way will be kept free of trash during operations.

J. The proposed access road has been centerline flagged.

K. If a right-of-way is required please consider this APD the application for said right-of-way.

**3. Location of Existing Wells Within a One-Mile Radius:**

Please Refer to Map "C"

- A. Water wells - none known.
- B. Abandoned wells - see Map "C"
- C. Temporarily abandoned wells - none known.
- D. Disposal wells - none known.
- E. Drilling wells - none known.
- F. Producing wells - see Map "C".
- G. Shut-in wells - none known.
- H. Injection wells - none known.
- I. Monitoring wells - none known.

**4. Location of Existing and/or Proposed Facilities Owned by Equitable Resources Energy Company Within a One-Mile Radius:**

**A. Existing**

- 1. Tank batteries - see Map "C".
- 2. Production facilities - see Map "C".
- 3. Oil gathering lines - none.
- 4. Gas gathering lines - see Map "C".

**B. New Facilities Contemplated**

- 1. All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty-five (25) feet from the toe of the backslope or toe of the fill slope.
- 2. The production facilities will consist primarily of a pumping unit, Two tanks and an emergency pit. ~~XXXXXX~~ ~~showing the proposed production facility layout will be submitted to the Authorized Officer via "Sundry Notice" (Form 3160-5) for approval of subsequent installation operations.~~ See EXHIBIT "N" Proposed production facility diagram.
- 3. Production facilities will be accommodated on the

existing well pad. Construction materials required for installation of the production facilities will be obtained from the site; any additional materials required will be purchased from a local supplier having a permitted (private) source of materials within the area.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

4. All permanent (onsite for six months or longer) above the ground structures constructed or installed including pumping units) will be painted Desert Brown. All production facilities will be painted within six (6) months of installation. Facilities required to comply with Occupational Health and Safety Act Rules and Regulations will be excluded from this painting requirement.

- C. The production (emergency) pit will be 12'x12' and will be fenced. Said fence will be maintained in good condition.
- D. During drilling and subsequent operations, all equipment and vehicles will be confined to the access road right-of-way and any additional areas as specified in the approved Application for Permit to Drill.
- E. Reclamation of disturbed areas no longer needed for operation will accomplished by grading, leveling and seeding as recommended by the Bureau of Land Management.

For Pipeline:

- F. Any proposed pipelines will be submitted to the authorized officer Via Sundry Notice for approval of subsequent operations.
- G. Equitable Resources Energy Company shall be responsible for road maintenance from the beginning to completion of operations.

## **5. Location and Type of Water Supply**

- A. Water to be used for the drilling of these wells will be

hauled by truck over the roads described in item #1 and item #2, from a well owned by Owen Dale Anderson of Vernal Utah or from a spring owned by Joe Shields of Myton Utah. Source will be determined by sundry notice closer to the beginning of drilling operations.

B. No water well will be drilled on this location.

## **6. Source of Construction Materials**

A. No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from a local gravel pit over existing access roads to the area. No special access other than for drilling operations and pipeline construction is needed.

B. All access roads crossing Federal land are described under item #2, and shown on Map #A.

All construction material for these location sites and access roads shall be borrowed material accumulated during the construction of the location sites and access roads. No additional construction material from other sources is anticipated at this time, if in the future it is required the appropriate actions will be taken to acquire it from private sources.

C. All surface disturbance area is on B.L.M. lands.

D. There are no trees on this location.

## **7. Methods of Handling Waste Materials:**

A. Cuttings - the cuttings will be deposited in the reserve pit.

B. Drilling fluids - including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within one hundred twenty (120) days after termination of drilling and completion activities.

In the event adverse weather conditions prevent removal of the fluids from the reserve pit within this time period, an extension may be granted by the Authorized Officer upon receipt of a written request from Equitable Resources Energy Company.

The reserve pit will be constructed so as not to leak, break, or allow discharge. The reserve pit will be lined with a 12 mil plastic reinforced liner.

- C. Produced fluids - liquid hydrocarbons produced during completion operations will be placed in test tanks on the location. Produced waste water will be confined to a lined pit (reserve pit) or storage tank for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, shall be submitted for the Authorized Officer's approval. Failure to file an application within the time frame allowed will be considered an incidence of noncompliance.

Any spills of oil, gas, salt water or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

- D. Sewage - self-contained, chemical toilets will be provided for human waste disposal. Upon completion of operations, or as needed, the toilet holding tanks will be pumped and the contents thereof disposed of in the nearest, approved, sewage disposal facility.
- E. Garbage and other waste material - garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash cage during drilling and completion operations. Upon completion of operations (or as needed) the accumulated trash will be disposed of at an authorized sanitary landfill. No trash will be burned on location or placed in the reserve pit.
- F. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the well location. No adverse materials will be left on the location. Any open pits will be fenced during the drilling operation and the fencing will be maintained until such time as the pits are backfilled.
- G. The reserve and/or production pit will be constructed on the existing location and will not be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls. All pits will be constructed so as not to leak, break, or allow the discharge of liquids therefrom.

## **8. Ancillary Facilities:**

None anticipated.

**9. Wellsite Layout:**

- A. Plat #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the location. An average minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site. Refer to Figure #1 for the location of the topsoil and subsoil stockpiles. The reserve pit will be on the North side of location. The flare pit will be located downwind of the prevailing wind direction on the Northwest near corner #4. Access will be from the West between corners #2 & #3.
- B. Plat #2 is a diagram showing the rig layout. No permanent living facilities are planned. There may be as many as three (3) trailers on location during drilling operation.
- C. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via Sundry Notice (Form 3160-5) for approval of subsequent operations.
- D. The reserve pit will be constructed so as to be capable of holding 12,000 bbls. of fluid.

The reserve pit will be lined with a 12 mil plastic liner, it will be torn and perforated after the pit dries and before backfilling of the reserve pit.

- E. Prior to the commencement of drilling operations, the reserve pit will be fenced on three (3) sides using 39-inch net wire with one strand of barbed wire on top of the net wire. The net wire will be no more than two inches above the ground. the barbed wire will be three inches above the net wire. total height of the fence will be at least 42-inches.
  - 1. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
  - 2. Standard steel, wood, or pipe posts shall be used between the corner braces. The maximum distance between any two (2) posts shall be no greater than sixteen (16) feet.
  - 3. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The fourth side of the reserve pit will be fenced immediately upon removal of the drilling rig and the fencing will be maintained until the pit is backfilled.

- F. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed.

#### **10. Plans for Reclamation of the Surface:**

The B.L.M. will be contacted prior to commencement of any reclamation operations.

##### **A. Production**

1. Immediately upon well completion, the well location and surrounding area(s) will be cleared of all debris, materials, trash and junk not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
3. The plastic pit liner shall be torn and perforated before backfilling of the reserve pit.
4. Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all cans, barrels, pipe, etc. will be removed.

Other waste and spoil materials will be disposed of immediately upon completion of drilling and workover activities.

5. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed within one hundred twenty (120) days from the date of well completion, weather permitting.
6. If the well is a producer, Equitable Resources Energy Company will, upgrade and maintain access roads as necessary to prevent soil erosion, and accommodate year round traffic. Reshape areas unnecessary to operations, distribute topsoil, disk and seed all disturbed areas outside the work area according to the recommended seed mixture. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

If the well is abandoned/dry hole, Equitable Resources



Energy Company will, restore the access road and location to approximately the original contours. During reclamation of the site, push the fill material into cuts and up over the backslope. Leave no depressions that will trap water or form ponds. Distribute topsoil evenly over the location, and seed according to the above seed mixture. The access road and location shall be ripped or dished prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

Seedbed will be prepared by disking, then roller packing following the natural contours. Seed will be drilled on contours at a depth no greater than one-half inch (1/2"). In areas that cannot be drilled, seed will be broadcast at double the seeding rate and harrowed into soil. Certified seed will be used whenever available.

Fall seeding will be completed after September 1 and prior to prolonged ground frost. Spring seeding, to be effective, will be completed after the frost has left the ground and prior to May 15th.

7. Upon completion of backfilling, leveling and recontouring, the stockpiled topsoil will be evenly spread over the reclaimed area(s). Prior to reseeding, all disturbed surfaces will be scarified and left with a rough surface. No depressions will be left that would trap water and form ponds. All disturbed surfaces will be reseeded with the seed mixture stipulated by the B.L.M.

Seed will be drilled on the contour to a approximate depth of one-half (1/2) inch. All seeding will be conducted after September 1 and prior to ground frost. Spring seeding will be done after the frost leaves the ground and no later than May 15. If the seeding is unsuccessful, Equitable Resources may be required to make subsequent seedings.

#### B. Dry Hole/Abandoned Location

1. On lands administered by the Bureau of Land Management, abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include:

(c) ensuring revegetation of the disturbed areas to the specifications of the Bureau of Land Management at

the time of abandonment.

2. All disturbed surfaces will be recontoured to the approximate natural contours and reseeded according to BLM specifications. Reclamation of the well pad and access road will be performed as soon as practical after final abandonment and reseeding operations will be performed in the fall or spring following completion of reclamation operations.

#### **11. Surface Ownership:**

The well site and proposed access road are situated on surface lands administered by

Bureau of Land Management  
Vernal District Office  
Vernal, Utah

#### **12. Other Information:**

- A. Topographic and geologic features of the area (reference Topographic Map #A) are:

The proposed drill site is located in the Monument Butte oil field, which lies in a large basin formed by the Uinta Mountains to the North and the Bookcliff Mountains to the South. The site is located approximately 15 miles Northwest of the Green River, which is the major drainage for this area, and approximately 13 miles Southwest of Myton Utah.

This basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerate deposits and shale are common in this area.

The geologic structures that are visible in the area are of the Uinta formation (Eocene Epoch) tertiary period and the cobblestone and younger alluvial deposits from the Quaternary period.

The soils in the semi-arid area of the Williams Fork Formation (Upper Cretaceous) and Wasatch Formation (Eocene) consist of light brownish gray clay (OL) to sand soil (SM-ML) type with poorly graded gravels.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoils in the area range from a sandy clay (SM-ML) type soil to a clayey (OL) soil.

The majority of the numerous washes and draws in the area are of a non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 8".

The flora of the area includes sagebrush, mountain mahogany, serviceberry, rabbit brush, greasewood, four-wing saltbush, Gambel scrub oak, willow, tamarack, shadscale, Spanish bayonet, indian rice grass, cheatgrass, wheatgrass, curly grass, crested wheatgrass, sweet clover, gum weed, foxtail, mustard, Canadian thistle, Russian thistle, Kochia, sunflowers and cacti.

The fauna of the area includes cattle, horses, elk, deer, coyotes, rabbits, rodents, lizards, bull snakes, rattle snakes, water snakes and horned toads. Birds of the area are ground sparrows, bluejays, bluebirds, magpies, ravens, raptors, morning doves, swallows, nighthawks, hummingbirds, and chukar.

- B. The surface ownership is Federal. The surface use is grazing and petroleum production.
- C.
  - 1. The closest live water is the Green River which is approximately 15 miles Southwest of the proposed site.
  - 2. There are no occupied dwellings in the immediate area
  - 3. An archaeological report ~~will be forwarded upon completion~~ is attached. See EXHIBIT "M".
  - 4. There are no reported restrictions or reservations noted on the oil and gas lease.
  - 5. A silt catchment dam will be constructed if determined necessary as a condition of approval.

**13. Lessee's or Operator's Representative:**

Balcron Oil  
a division of Equitable Resources Energy Company  
1601 Lewis Avenue  
P.O. Box 21017  
Billings, Montana 59104  
(8:00 a.m. to 5:00 p.m.)  
(406)259-7860  
FAX: (406)245-1361

Dave McCoskery, Drilling Engineer Home (406)248-3864

Dale Griffin, Home (303)824-3323

**14. certification:**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that any statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Balcron Oil, a division of Equitable Resources Energy Company, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

December 13, 1993  
Date

Bobbie Schuman  
Bobbie Schuman  
Coordinator of Environmental  
and Regulatory Affairs  
BALCRON OIL division of  
Equitable Resources Energy Co.

## EXHIBIT "C"

Well Name	BALCRON MONUMENT FEDERAL #12-17			Exploratory		Control Well	PAIUTE FED 11-17
Location	SWNW SEC 17-T9S-R17E 1980' FNL, 660' FWL			Development	X	Operator	DMND SHMRK
County	DUCESNE			Field	MON BUTTE	KB	5404
State	UTAH			Section	SWNW 17	Section	NWNW 17
Total Depth	5650			Township	9S	Township	9S
GL (Ung)	5407.9	EST. KB	5416	Range	17E	Range	17E

[illegible]

Samples	DST,s	Wellsite Geologist
50' FROM 1350' TO 3850'	DST #1 NONE	Name: _____
10' FROM 3850' TO TD	DST #2 _____	From: _____ to: _____
	DST #3 _____	Address: _____
	DST #4 _____	

Logs	Cores	hm.
DLL FROM SURF CSG TO TD	Core #1 NONE	Fax #
LDT/CNL FROM 3500' TO TD	Core #2	
	Core #3	Mud Logger/Hot Wire
	Core #4	Company:
		Required: (Yes/No) YES

Comments: _____		Logger: _____	
_____		Phone # _____	
_____		Fax # _____	
<b>Report To:</b>	1st Name: <u>DAVE BICKERSTAFF</u>	Phone # <u>(406) 259-7860</u>	wk. <u>245-2261</u> hm.
	2nd Name: <u>KEVEN REINSCHMIDT</u>	Phone # <u>"</u>	wk. <u>248-7026</u> hm.
<b>Prepared By:</b> KKR	<u>12/9/93</u>	Phone # _____	wk. _____ hm.

Equitable Resources Energy Company  
Balcron Oil Division

DRILLING PROGRAM

WELL NAME: Monument Butte Area  
LOCATION: Twn.9S Rge.16E & 17E  
COUNTY: Duchesne

PROSPECT/FIELD: Monument Butte  
STATE: Utah

TOTAL DEPTH: SEE APD COVER SHEET

HOLE SIZE	INTERVAL
12 1/4"	0 to 260'
7 7/8"	260 to T.D.

CASING STRING TYPE	INTERVAL		CASING		
	FROM	TO	SIZE	WEIGHT	GRADE
Surface Casing	0	260	8 5/8"	24 #/Ft	J-55
Production Casing	0	T.D.	5 1/2"	15.50#/Ft	J-55
(All Casing will be new, ST&C)					

CEMENT PROGRAM

Surface	150 sacks 75% Class "G" 25% Poz with 2% CaCl and 1/4 #/Sk Flocele. (Cement will be circulated to surface.)
Production	250 sacks Thifty Lite and 400 sacks 50-50 Poz mix.

PRELIMINARY  
DRILLING FLUID PROGRAM

TYPE	FROM	TO	WEIGHT	PLAS. VIS	YIELD POINT
Air and air mist	0	260	N.A.	N.A.	N.A.
Air/Air Mist/KCl Water	260	T.D.	8.7-8.9	N.A.	N.A.

depending on the drilling contractor either:

- Drilling will be with air from surface to as deep as hole conditions allow. 2% KCl fluid will be used for the remainder of the hole.
- Drilling will be done using 2% KCl water and gel.

COMMENTS

- No cores or DST's are planned.

DMM/8/27/93

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: MONUMENT BUTTE AREA
Project ID:	Location: Monument Butte, Utah

Design Parameters:

Mud weight ( 9.63 ppg) : 0.500 psi/ft  
 Shut in surface pressure : 2280 psi  
 Internal gradient (burst) : 0.100 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using air weight  
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Body Yield : 1.50 (B)  
 Overpull : 0 lbs.

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	SFC TO TD	5-1/2"	15.50	J-55	ST&C	SEE APD COVER SHEET	4.825		
	Collapse Load (psi)	Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	2850	4040	1.418	2850	4810	1.69	88.35	202	2.29 J

Prepared by : McCoskery, Billings, MT  
 Date : 11-30-1992 (Revised 8/30/93)  
 Remarks :

The mud gradient and bottom hole pressures (for burst) are 0.500 psi/ft and 2,850 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1990 pricing model. (Version 1.0G)

- A. Hazardous chemicals 10,000 pounds of which will most likely be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

We anticipate that none of the hazardous chemicals in quantities of 10,000 pounds or more will be associated with these operations.

- B. Extremely hazardous substances threshold quantities (per Howard Cleavinger 11/30/93) of which will be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

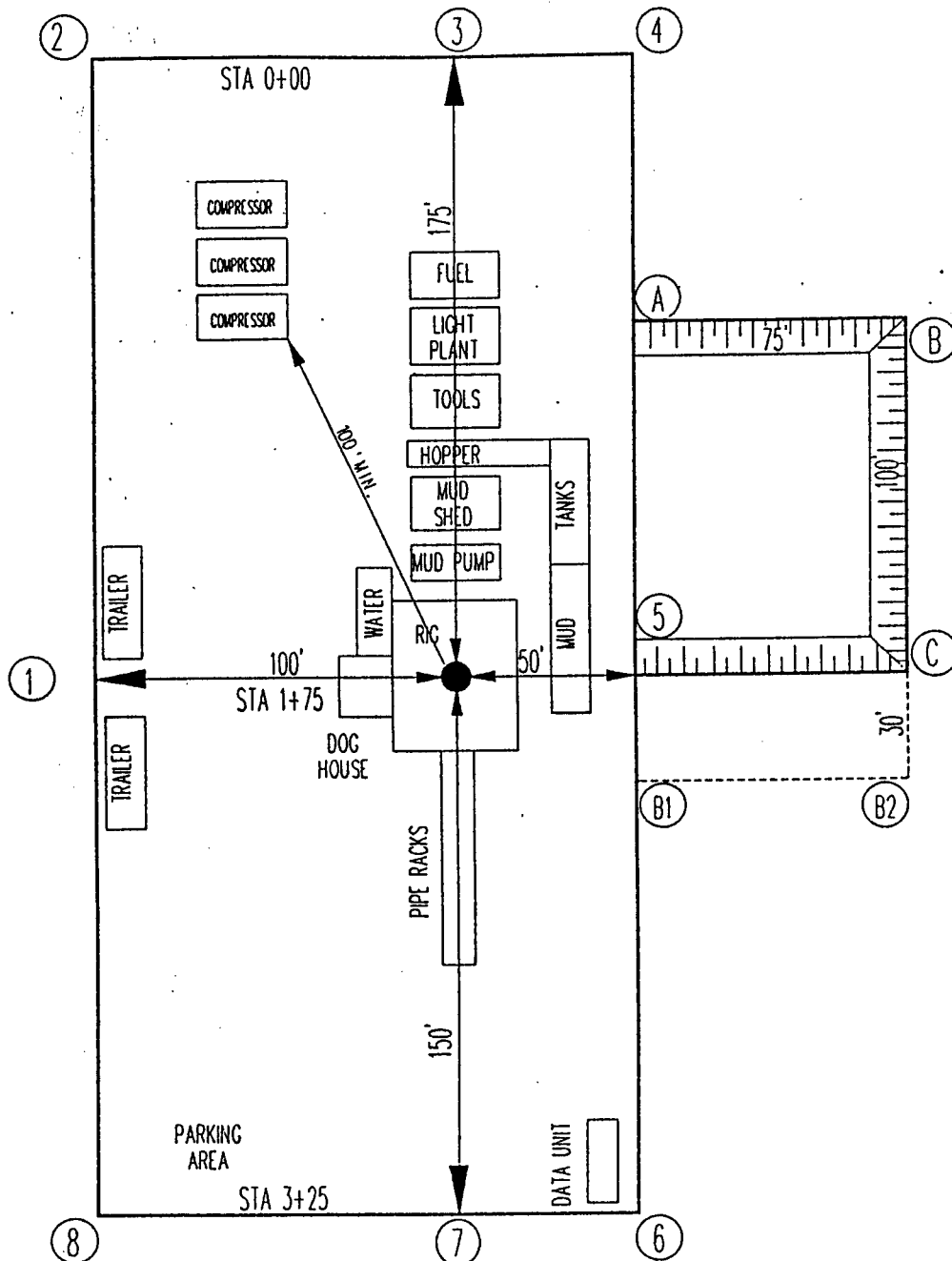
We anticipate that none of the extremely hazardous substances in threshold quantities per 40 CFR 355 will be associated with these operations.

12/1/93  
Revised 12/7/93  
/rs



# EQUITABLE RESOURCES ENERGY CO.

## WELLSITE LAYOUT



**TRI-STATE**  
LAND SURVEYING, INC.  
38 WEST 100 NORTH, VERMILION, UTAH 84078  
801-781-2501

UNION DRILLING RIG #17

Hex Kelly

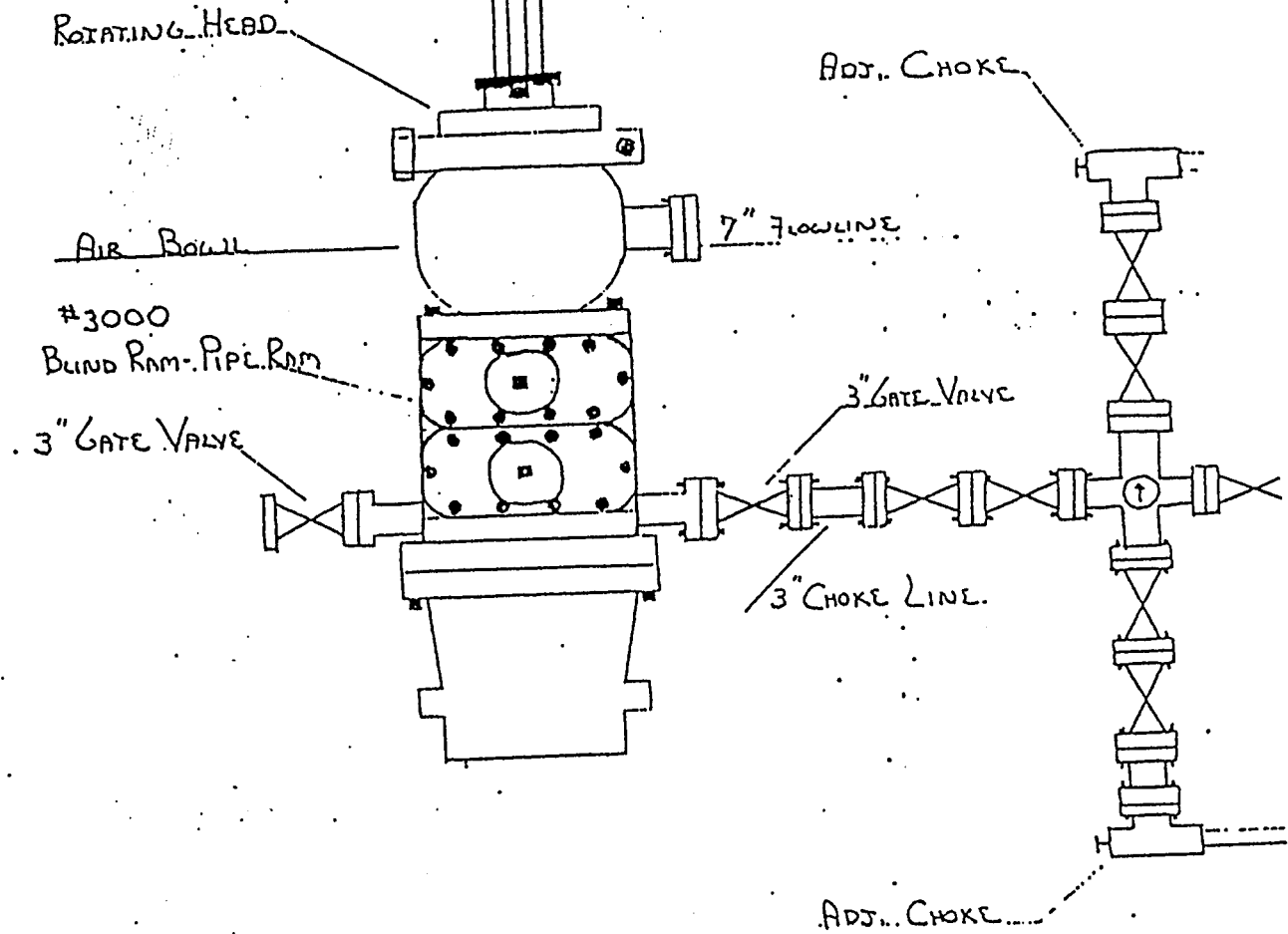
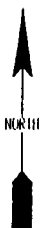
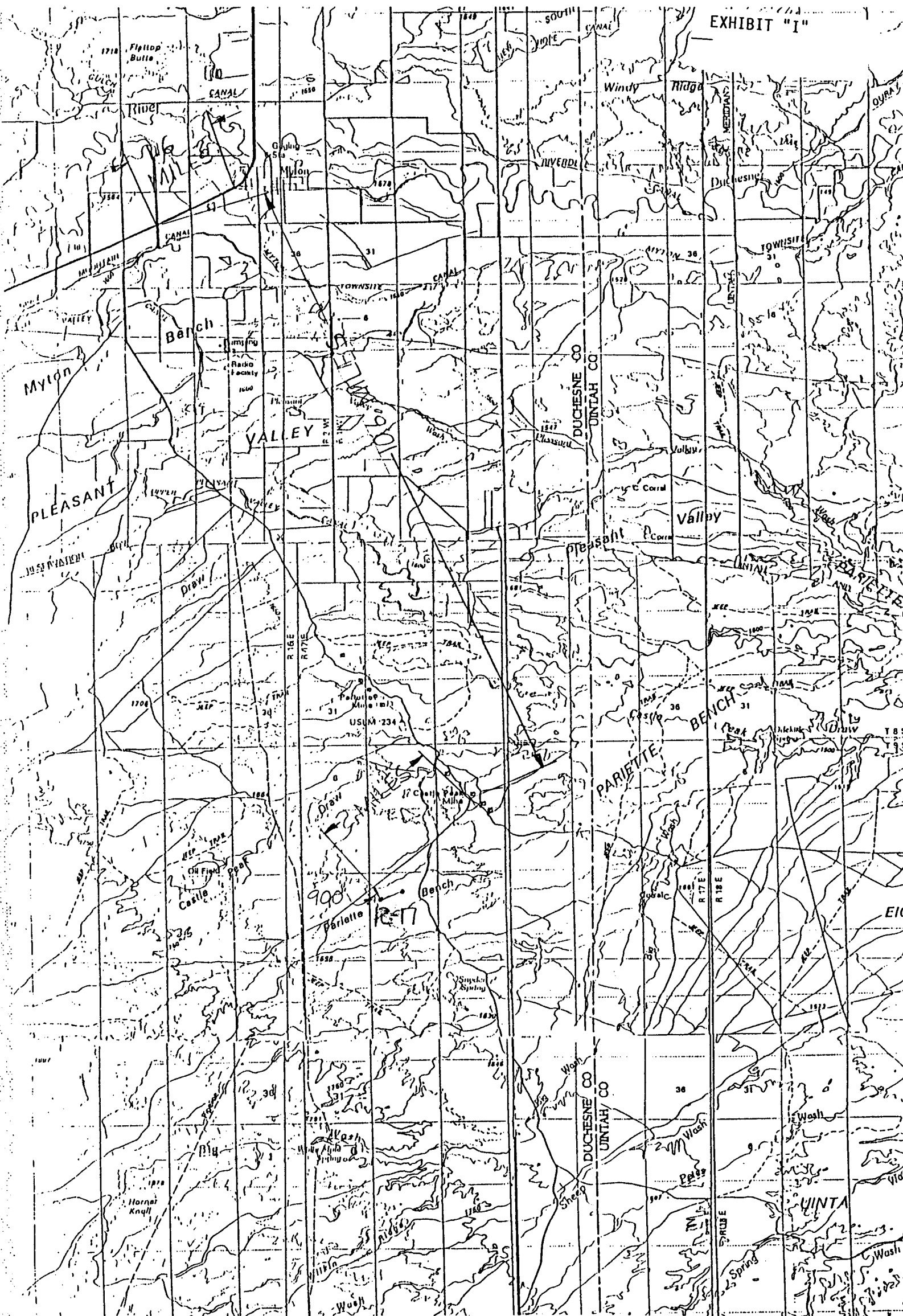


EXHIBIT "I"



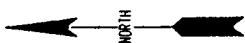
EQUITABLE RESOURCES ENERGY CO.  
MONUMENT FEDERAL #12-17  
MAP "A"

TRI-STATE  
LAND SURVEYING, INC.  
38 WEST 100 NORTH, VERNAL, UTAH 84078  
801-781-2501

!

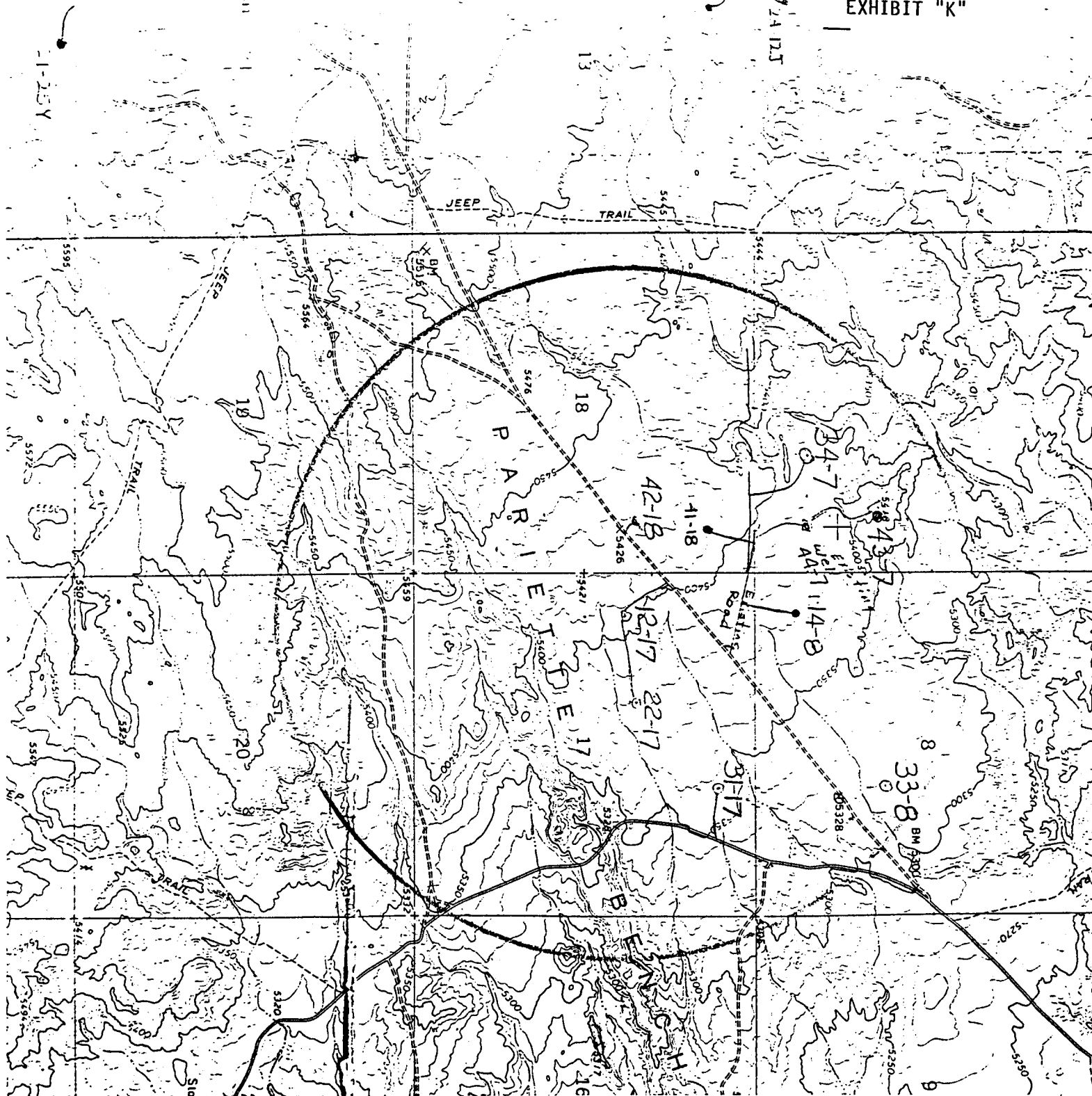


MAP "B"



801-781-2501

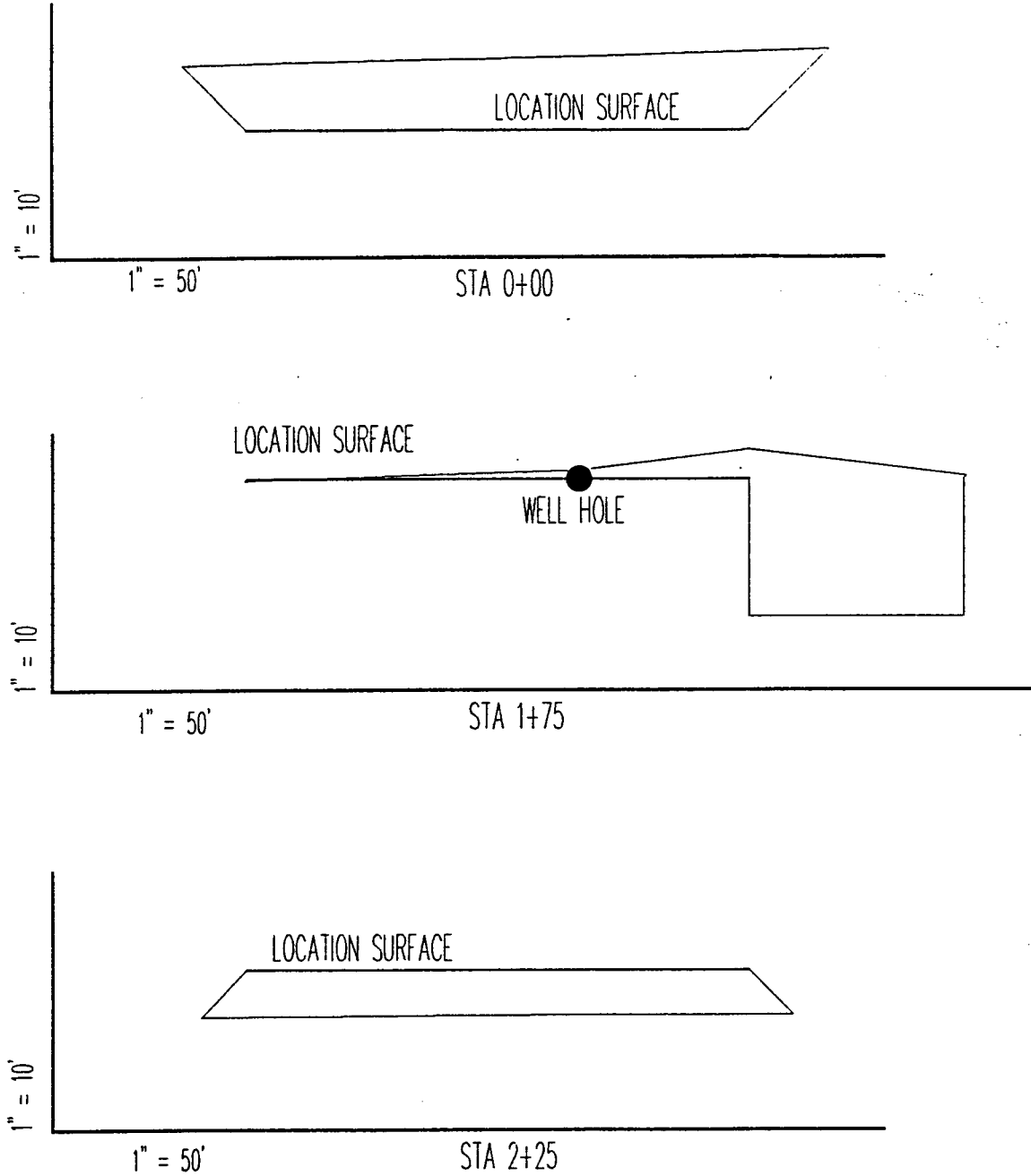
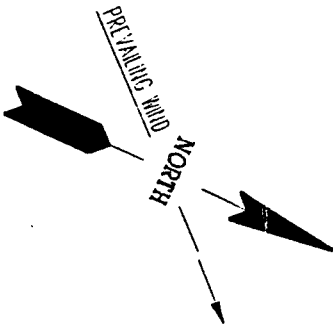
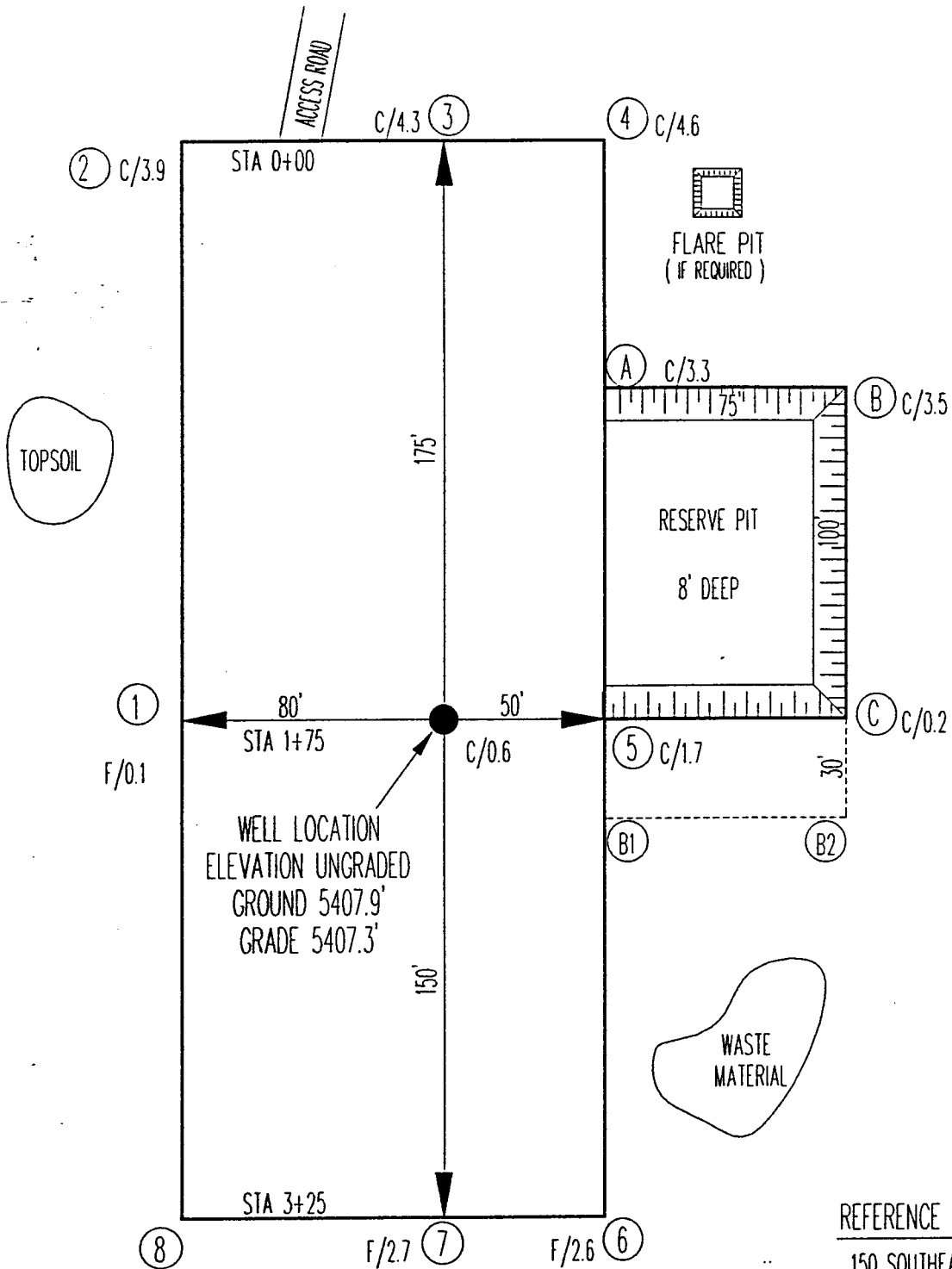
EXHIBIT "K"



EQUITABLE RESOURCES ENERGY CO.  
MONUMENT FEDERAL #12-17  
MAP "C"

**TRI-STATE**  
**LAND SURVEYING, INC.**  
38 WEST 100 NORTH, VERNAL, UTAH 84078  
801-781-2501

EQUITABLE RESOURCES ENERGY CO.  
BALCRON MONUMENT FEDERAL #12-17



REFERENCE POINTS

150 SOUTHEAST 5408.0'  
200 SOUTHEAST 5408.1'  
225 SOUTHWEST 5412.3'  
275 SOUTHWEST 5413.3'

APPROXIMATE YARDAGE

CUT = 1570 Cu Yds  
FILL = 1540 Cu Yds  
PIT = 1826.4 Cu Yds

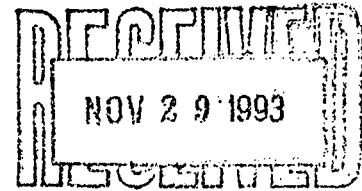
**TRI-STATE**  
LAND SURVEYING, INC.  
38 WEST 100 NORTH, VERNAL, UTAH 84078  
801-781-2501

# ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

12-17

P. O. Box 853 Bountiful, Utah 84011-0853  
Tel: (801) 292-7061, 292-9668

November 22, 1993



*Subject:* CULTURAL RESOURCE EVALUATION OF SEVEN  
PROPOSED WELLS IN THE MONUMENT BUTTES AND  
PLEASANT VALLEY LOCALITIES OF DUCHESNE AND  
UINTAH COUNTIES, UTAH

*Project:* Balcron Oil -- 1993-1994 Development Program

*Project No.:* BLCR-93-11

*Permit No.:* Dept. of Interior -- UT-93-54937

*State Project No:* UT-93-AF-669b

*To:* Ms. Bobbie Schuman, Balcron Oil Division, P.O. Box 21017, Billings, Montana  
59104

Mr. David Little, District Manager, Bureau of Land Management, 170 South 500  
East, Vernal, Utah 84078

*Info:* Antiquities Section, Division of State History, 300 Rio Grande, Salt Lake City,  
Utah 84101

**CULTURAL RESOURCE EVALUATION  
OF SEVEN PROPOSED WELLS  
IN THE MONUMENT BUTTES AND  
PLEASANT VALLEY LOCALITIES  
OF DUCHESNE AND UINTAH COUNTIES, UTAH**

Report Prepared for Balcron Oil Company

Dept. of Interior Permit No.: UT-93-54937  
AERC Project 1415 (BLCR-93-11)

Utah State Project No.: UT-93-AF-669b

Principal Investigator  
F. Richard Hauck, Ph.D.

Authors of the Report  
F. Richard Hauck & Glade V Hadden



**ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH  
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November 22, 1993



## ABSTRACT

An intensive cultural resource evaluation has been conducted for Balcron Oil Company of seven proposed wells (Monument Federal Units 33-8, 12-17, 22-17, 31-17, 42-18, 43-7 and 41-26) and associated access routes situated on BLM administered lands located in the Monument Buttes locality of Duchesne County, Utah and the Pleasant Valley locality of Uintah County, Utah. This evaluation involved a total of 78.6 acres, of which 70 acres are associated with the seven well pads and an additional 8.6 acres associated with the various access road rights of way. These evaluations were conducted by Glade Hadden and Walter Lenington of AERC on November 16, 17 and 18, 1993.

No previously recorded significant or National Register eligible cultural resources will be adversely affected by the proposed developments.

One newly identified cultural resource activity locus was discovered and recorded during the examinations. 42UN 2084 is a non-significant prehistoric activity locus associated with well location 41-26. This site is a cobble quarry area located within the proposed well development zone.

One isolated artifact was recorded during the investigations. Isolate 1415G/X1 is a non-diagnostic chert core noted on the access road between Units 12-17 and 22-17. This artifact was recorded but not collected.

AERC recommends project clearance based on adherence to the stipulations noted in the final section of this report.

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## GENERAL INFORMATION

On November 16, 17 and 18, 1993, AERC archaeologists Glade Hadden and Walter Lenington conducted an intensive cultural resource evaluation for Balcron Oil Company of Billings, Montana. This examination involved seven proposed well locations (Monument Federal Units 33-8, 12-17, 22-17, 31-17, 42-18, 43-7 and 41-26) and associated access roads located in the Monument Buttes area, and in the Pleasant Valley area, south of Myton, Utah. Some 78.6 acres were examined which includes ca. 70 acres associated with the well pads and an additional 8.6 acres associated with the various 100 foot-wide access routes. This project is situated in the Monument Buttes locality of Duchesne County, Utah. The entire project area is situated on federal lands administered by the Bureau of Land Management, Vernal District Office, Diamond Mountain Resource Area.

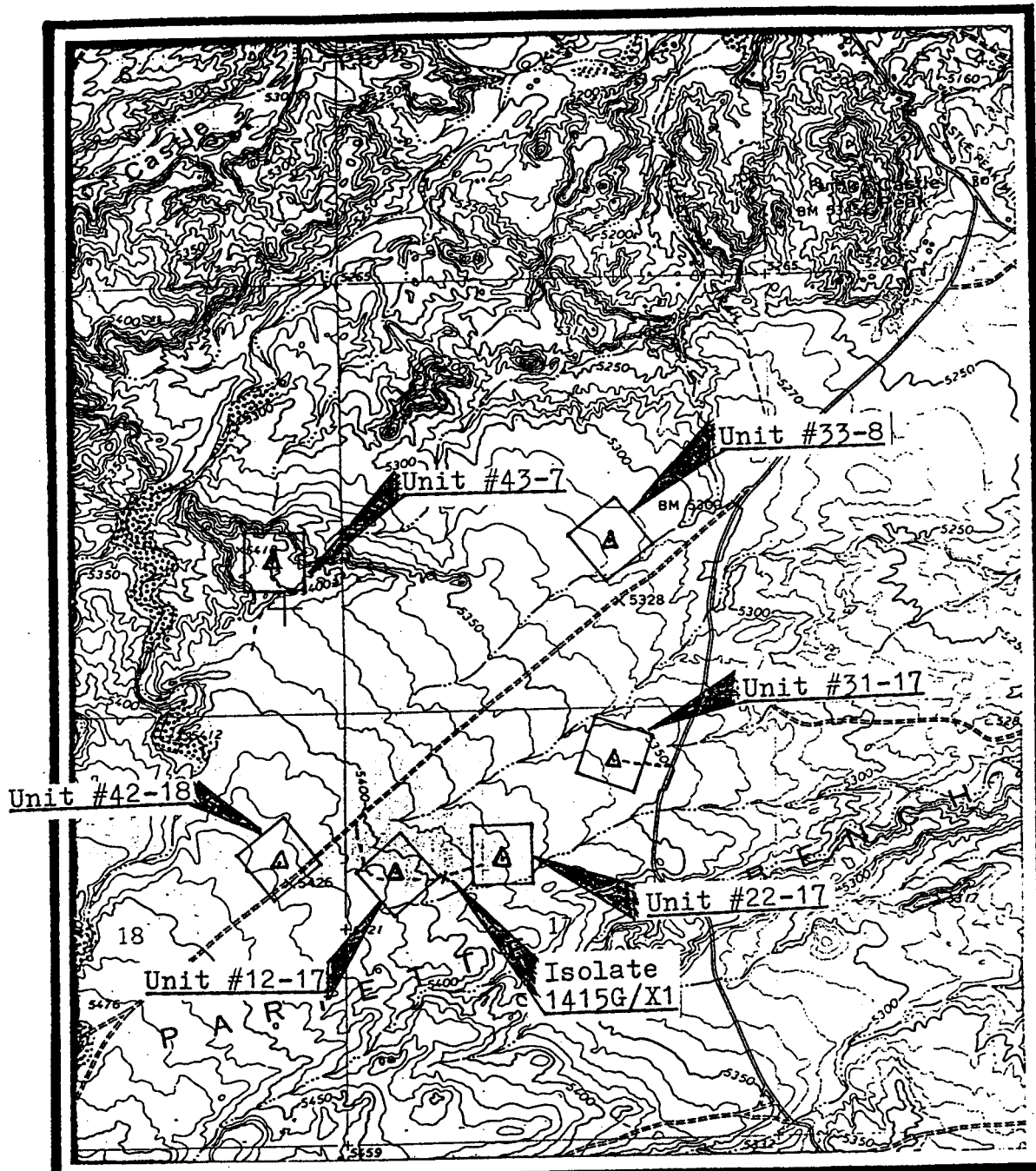
The purpose of the field study and this report is to identify and document cultural site presence and assess National Register potential significance relative to established criteria (cf., Title 36 CFR 60.6). The proposed developments of these seven drilling locations require archaeological evaluations in compliance with U.C.A. 9-8-404, the Federal Antiquities Act of 1906, the Reservoir Salvage Act of 1960-as amended by P.L. 93-291, Section 106 of the National Historic Preservation Act of 1966-as amended, the National Environmental Policy Act of 1969, the Federal Land Policy and Management Act of 1979, the Archaeological Resources Protection Act of 1979, the Native American Religious Freedom Act of 1978, the Historic Preservation Act of 1980, and Executive Order 11593.

In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials can be directed to the Bureau of Land Management Vernal District Office, and to the Utah State Antiquities Section. This work was done under U.S. Department of Interior Permit for Utah UT-93-54937 which expires on January 31, 1994.

### Project Location



The project location is in the Monument Buttes locality of Duchesne County, Utah (situated on the Myton SE 7.5 minute topographic quad) and in the Pleasant Valley locality of Uintah County, Utah (situated on the Pariette Draw SW 7.5 minute topographic quad). The proposed drilling locations are situated in the following sections:

Balcron Monument Federal #33-8 is located in the NW - SE of Section 8, T. 9 So., R. 17 E. (see Map 1)



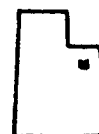
T. 9 So.  
R. 17 E.  
Meridian: SL  
Quad: Myton SE  
Utah

**MAP 1**  
Cultural Resource Survey of  
Proposed Balcron Well Units  
in the Monument Buttes  
Locality, Duchesne County

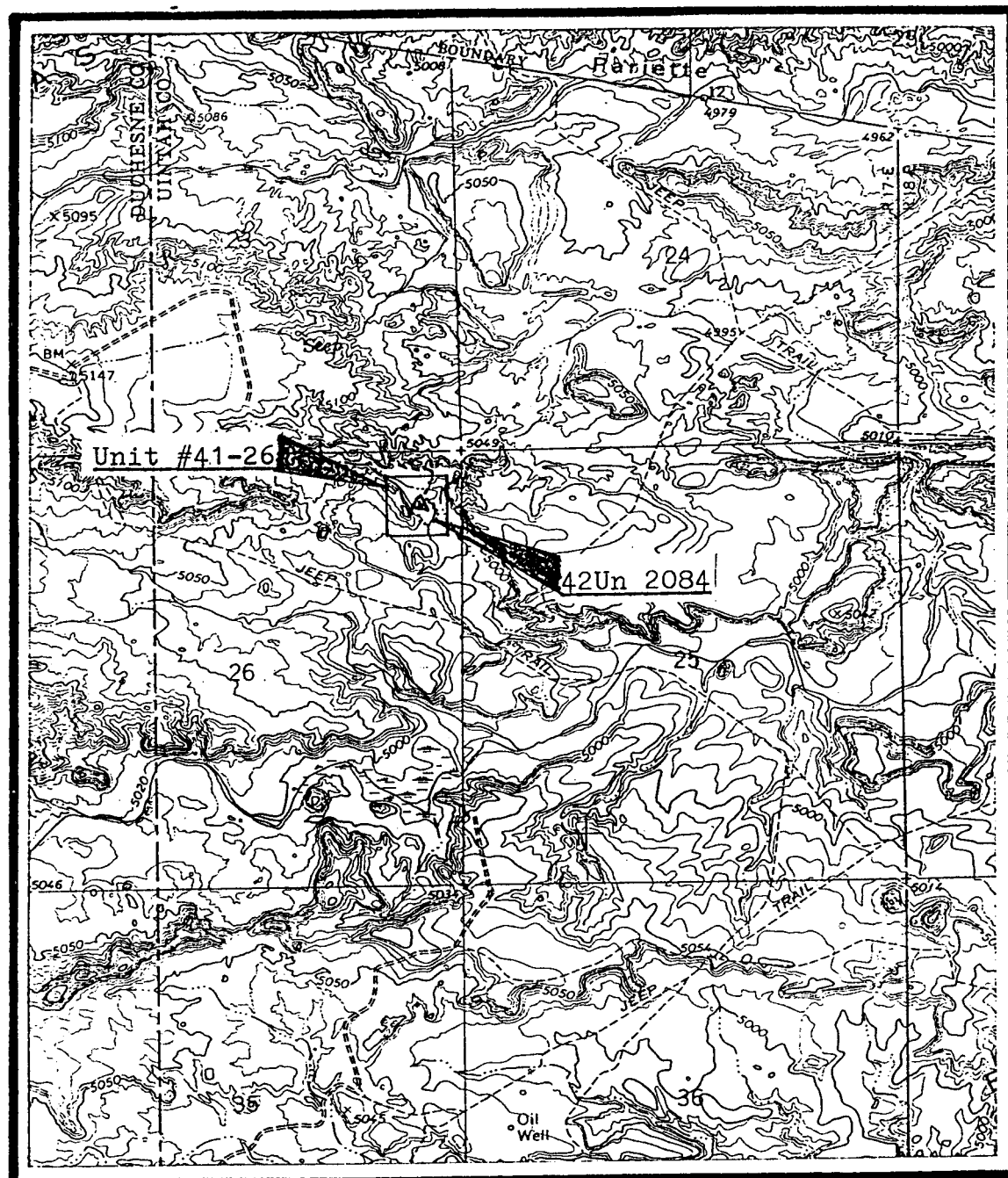
**Legend:**  
Well Location   
Access Route 

4  
N

**Project:** BLCR-93-11  
**Series:** Uinta Basin  
**Date:** 11/22/93  
**Scale:** 1:64,000



ACR



T. 8 So.  
R. 17 E.  
Meridian: SL  
Quad: Pariette  
Draw SW  
Utah

4  
N

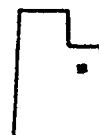
Project: BLCR-93-11  
Series: Uinta Basin  
Date: 11/22/93

MAP 2  
Cultural Resource Survey of  
a Proposed Balcron Well  
in the Pleasant Valley  
Locality, Uintah County

Legend:

Well  
Location  
Access  
Route  
Cultural  
Site

A



Balcron Monument Federal #12-17 is located in the SW - NW of Section 17, T. 9 So., R. 17 E. and includes ca. 600 feet of access road (see Map 1)

Balcron Monument Federal #22-17 is located in the SE - NW of Section 17, T. 9 So., R. 17 E. and includes ca. 500 feet of access road (see Map 1)

Balcron Monument Federal #31-17 is located in the NW - NE of Section 17, T. 9 So., R. 17 E. and includes ca. 350 feet of access road (see Map 1)

Balcron Monument Federal #42-18 is located in the SE - NE of Section 18, T. 9 So., R. 17 E. (see Map 1)

Balcron Monument Federal #43-7 is located in the NE - SE of Section 7, T. 9 So., R. 17 E. and includes ca. 1000 feet of access road (see Map 1)

Balcron Monument Federal #41-26 is located in the NE - NE of Section 26, T. 8 So., R. 17 E. and includes ca. 1300 feet of access road (see Map 2)

### Environmental Description

The project area is within the 5000 to 5500 foot elevation zone above sea level. Open rangeland terrain and eroded Eocene lakebed surfaces are associated with the project area.

The vegetation in the project area includes *Chrysothamnus* spp., *Artemisia* spp., *Eriogonum* spp., *Sarcobatus vermiculatus*, *Ephedra viridis*, *Cercocarpus* spp., *Atriplex canescens*, *Salix* spp., *Typha* spp., and a variety of grasses and sedges.

The geological associations within the project area consist of fluvial and lake deposits which correlate with the Uinta Formation which is of Tertiary age.

### PREVIOUS RESEARCH IN THE LOCALITY

#### File Search

A records search of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City was conducted on November 19, 1993. A similar search was conducted in the Vernal District Office of the BLM on November 16, 1993. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

A variety of known cultural sites are situated in the Monument Buttes / Castle Peak Draw locality. Many of these prehistoric resources were identified and recorded by AERC during the Mapco River Bend survey (Norman and Hauck 1980). Other sites have been located and

recorded by AERC and other archaeological consultants during oil and gas exploration inventories.

### Prehistory and History of the Cultural Region

Currently available information indicates that the Northern Colorado Plateau Cultural Region has been occupied by a variety of cultures beginning perhaps as early as 10,000 B.C. These cultures, as identified by their material remains, demonstrate a cultural developmental process that begins with the earliest identified Paleoindian peoples (10,000 -- 7,000 B.C.) and extends through the Archaic (ca. 7,000 B.C. -- A.D. 300), and Formative (ca. A.D. 400 -- 1100) Stages, and the Late Prehistoric-Protohistoric periods (ca. A.D. 1200 -- 1850) to conclude in the Historic-Modern period which was initiated with the incursion of the Euro-American trappers, explorers, and settlers. Basically, each cultural stage -- with the exception of the Late Prehistoric hunting and gathering Shoshonean bands -- features a more complex life-way and social order than occurred during the earlier stage of development (Hauck 1991:53). For a more comprehensive treatment of the prehistory and history of this region see Archaeological Evaluations in the Northern Colorado Plateau Cultural Area (Hauck 1991).

### Site Potential in the Project Development Zone

Previous archaeological evaluations in the general project area have resulted in the identification and recording of a variety of cultural resource sites having eligibility for potential nomination to the National Register of Historic Places (NRHP). The majority of these sites are lithic scatters containing cobble reduction materials. Many of these quarry sites are of the "Tap and Test" variety, and extend for tens or hundreds of meters. Open occupations are also frequently being identified in this locality. Sites associated with the open rangeland generally appear to have been occupied during the Middle Plains Archaic Stage with occasional indications of Paleoindian activity based on the recovery of isolated Plano style projectile points. The north-south drainage canyons appear to contain the majority of Late Prehistoric (Numa) sites probably because those canyon floors were transportation corridors and convenient pastures for the Ute horse herds. Evidence of Formative Stage occupation, i.e., Fremont, is rarely observed in the rangeland environment but is common within the Green River and White River canyons and their primary tributary canyons.

Site density in certain portions of the region appears to range from one to four sites per section. These densities increase in the canyon bottoms due to Ute rock art loci. Recent evaluations indicate that the site densities may reach 8 to 12 sites per section in certain localities on the upper benches which were apparently favored for hunting, lithic resource procurement, and camping. Prehistoric sites on the rangeland benches appear to be associated with water courses and aeolian deposits.



## FIELD EVALUATIONS

### Methodology

Intensive evaluations consisted of the archaeologists walking a series of 10 to 20 meter-wide transects across a 10 acre area covering each well pad. In addition, access routes were surveyed by the archaeologists walking a pair of 10 to 15 meter wide transects on each side of the flagged access route right of way. Thus, a 30 meter-wide or 100 foot-wide corridor (ca. 8.6 acres) was examined for the total ca. 3750 foot length of proposed access road, in addition to the seventy acres inventoried on the well pads for a total of 78.6 acres.

Observation of cultural materials results in intensive examinations to determine the nature of the resource (isolate or activity locus). The analysis of each specific cultural site results in its subsequently being sketched, photographed, and appropriately recorded on standard IMACS forms. Cultural sites are then evaluated for significance utilizing the standards described below and mitigation recommendations are considered as a means of preserving significant resources which may be situated within the development zone.

### Site Significance Criteria

Prehistoric and historic cultural sites which can be considered as eligible for nomination to the National Register of Historic Places have been outlined as follows in the National Register's Criteria for Evaluation as established in Title 36 CFR 60.6:

The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:

- a. That are associated with events that have made a significant contribution to the broad patterns of our history; or
- b. that are associated with the lives of persons significant in our past; or
- c. that embody the distinctive characteristics of a type, period, or method of construction ... ; or
- d. that have yielded, or may be likely to yield, information important in prehistory or history.

In addition to satisfying one or more of these general conditions, a significant cultural resource site in Utah will generally be considered as being eligible for inclusion in the National Register if it should advance our current state of knowledge relating to chronology, cultural relationships, origins, and cultural life ways of prehistoric or historic groups in the area.

In a final review of any site's cultural significance, the site must possess integrity and at least one of the above criteria to be considered eligible for nomination to the National Record of Historic Places.

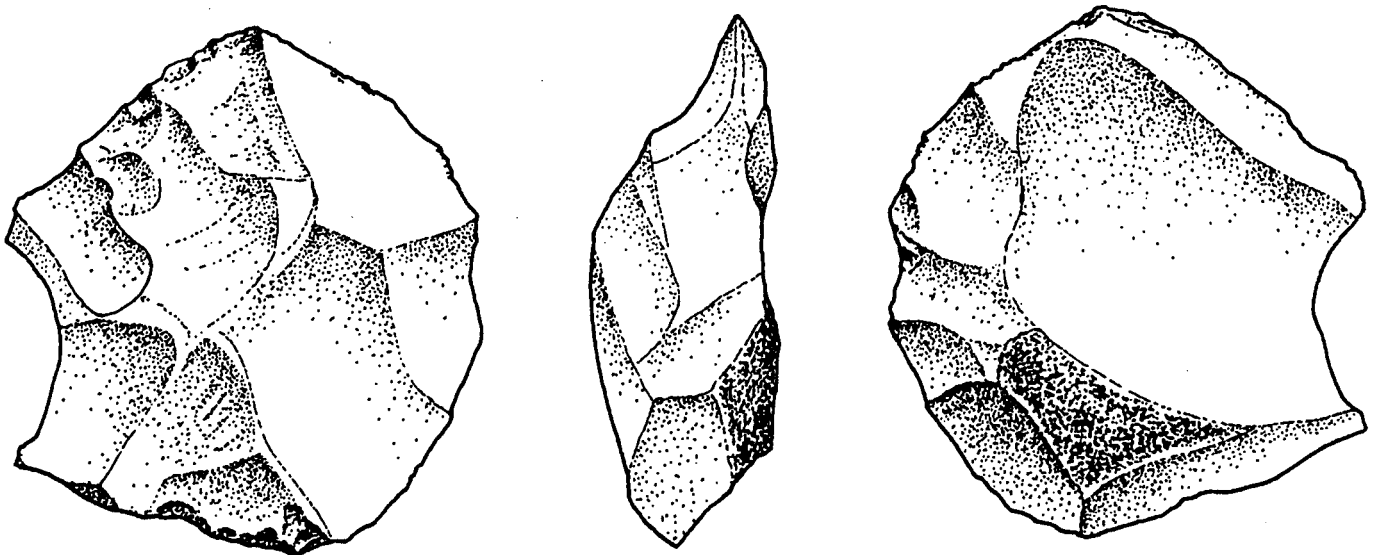
## Results of the Inventory

One prehistoric cultural resource activity locus was observed and recorded during the archaeological evaluations. Site 42UN 2084 (see map 2) is a 50 x 120 meter lithic surface quarry area. Isolated flakes are located up to 500 meters from the main locus. Artifacts are composed mainly of Parachute Creek Chert cores. Two biface blanks and two utilized flakes were also found. This non-significant site is of a type commonly found in the area. Remnant lag gravel deposits with many chert and quartzite cobbles present cover extensive areas in this locality, and most such "Desert Pavement" sites are the location for "Tap and Test" quarry operations. No buried deposits are present and artifact context is questionable due to sheet wash erosion. The site does not qualify under criterion d of Title 36 CFR 60.6.

No previously identified and recorded significant or National Register sites were noted or recorded during the survey.

No paleontological loci were observed or recorded during the evaluations.

One isolated artifact was recorded during the evaluations. Isolate 1415G/X1 (see Figure one) consists of a single Parachute Creek chert core located along the access route connecting Units 12-17 and 22-17. This artifact was not collected.



WLF © 1993

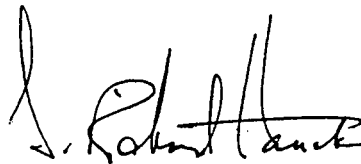
Isolated Artifact 1415G/X1  
(actual size)

## CONCLUSION AND RECOMMENDATIONS


No known significant cultural or paleontological resources will be adversely impacted during the development and operation of Balcron Units 33-8, 12-17, 22-17, 31-17, 42-18, 43-7 and 41-26 as evaluated during this project.

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company relative to the developments of these seven proposed drilling locations based upon adherence to the following stipulations:

1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the flagged areas and corridors examined as referenced in this report, and to the existing roadways.
2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
3. The authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.



F. Richard Hauck, Ph.D.  
President and Principal  
Investigator



Glade V Hadden  
Field Supervisor

## REFERENCES

Hadden, Glade V and F. R. Hauck

- 1993a Cultural Resource Evaluation of Seven Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-4, Archaeological-Environmental Research Corporation, Bountiful.
- 1993b Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-5, Archaeological-Environmental Research Corporation, Bountiful.
- 1993c Cultural Resource Evaluation of Eight Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-9, Archaeological-Environmental Research Corporation, Bountiful.
- 1993d Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-10, Archaeological-Environmental Research Corporation, Bountiful.

Hauck, F. Richard

- 1981 Cultural Resource Inventory of Nine Proposed Well Locations and Access Roads in the Coyote Basin Locality of Uintah County, Utah, and in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Diamond Shamrock, DS-81-2, Archeological-Environmental Research Corporation, Bountiful.
- 1991 Archaeological Evaluations on the Northern Colorado Plateau Cultural Area, AERC Paper No. 45, Archeological-Environmental Research Corporation, Bountiful.
- 1992a Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-2, Archeological-Environmental Research Corporation, Bountiful.

- 1992b Addendum to Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-4, Archeological-Environmental Research Corporation, Bountiful.
- 1992c Cultural Resource Evaluations of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-5, Archeological-Environmental Research Corporation, Bountiful.
- 1992d Cultural Resource Evaluation of a Proposed Water Pipeline Corridor in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-6, Archeological-Environmental Research Corporation, Bountiful.
- 1992e Cultural Resource Evaluation of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-8, Archeological-Environmental Research Corporation, Bountiful.
- 1993a Cultural Resource Evaluation of Nine Proposed Well Locations in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-1, Archeological-Environmental Research Corporation, Bountiful.
- 1993b Addendum to Cultural Resource Evaluation of Nine Proposed Well Locations in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-2, Archeological-Environmental Research Corporation, Bountiful.
- 1993c Cultural Resource Evaluation of a Pipeline Corridor Situated in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-3, Archeological-Environmental Research Corporation, Bountiful.

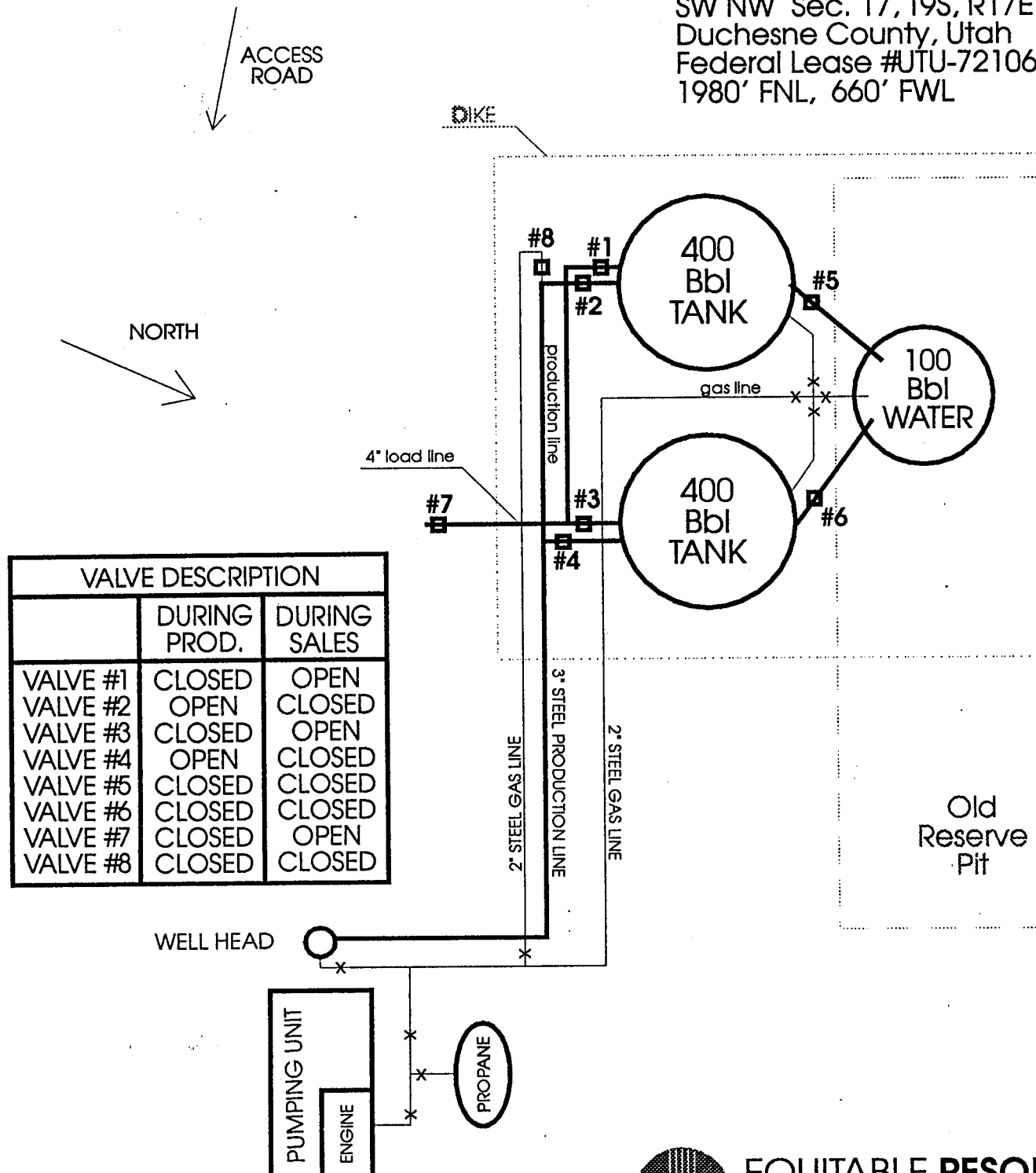
Norman, V. Garth and F.R. Hauck

- 1980 Final Report on the Mapco River Bend Cultural Mitigation Study. AERC Paper No. 18, of the Archeological-Environmental Research Corporation, Bountiful.

# Equitable Resources Energy Company Balcron Monument Federal 12-17 Proposed Production Facility Diagram

EXHIBIT "N"

Balcron Monument Federal 12-17  
 SW NW Sec. 17, T9S, R17E  
 Duchesne County, Utah  
 Federal Lease #UTU-72106  
 1980' FNL, 660' FWL



Old Reserve Pit



**EQUITABLE RESOURCES  
 ENERGY COMPANY**  
 BALCRON OIL DIVISION  
 1601 Lewis Avenue  
 P.O. Box 21017  
 Billings, MT 59104-1017  
 (406) 259-7860

DIAGRAM NOT TO SCALE

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**CONFIDENTIAL**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Type of Work  
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

Type of Well  
Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone ☐

Name of Operator  
Equitable Resources Energy Company, Balcron Oil Division

Address of Operator  
P.O. Box 21017; Billings, MT 59104

Location of Well (Report location clearly and in accordance with any State requirements.)  
At surface 1980' FNL, 660' FWL SW NW Sec. 17, T9S, R17E

At proposed prod. zone

Distance in miles and direction from nearest town or post office  
From Myton, Utah, approximately 16 miles southwest.

Distance from proposed location to nearest property or lease line, ft.  
(Also to nearest drilg. line, if any)

Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.  
6,000'

Elevations (Show whether DF, RT, GR, etc.)

GL 5407.9'

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
See attached				

5. Lease Designation and Serial No.

Federal # UTU-72106

6. If Indian, Allottee or Tribe Name

n/a

7. Unit Agreement Name

n/a

8. Farm or Lease Name

Balcron Monument Federal

9. Well No.

#12-17

10. Field and Pool, or Wildcat

Monument Butte/Green River

11. Q. Sec., T., R., N., or S. and Survey or Area

SW NW Sec. 17, T9S, R17E

12. County or Parrish

Duchesne

13. State

UTAH

17. No. of acres assigned to this well

16. No. of acres in lease

20. Rotary or cable tools

Rotary

22. Approx. date work will start

Upon APD approval

Operator plans to drill this well in accordance with the attached Federal Application for Permit to Drill.

RECEIVED

DEC 12 1993

DIVISION OF  
OIL, GAS & MINING

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

I hereby certify that this report is true and complete to the best of my knowledge.

Signature Bobbie Schuman

Title Coordinator of Environmental and Regulatory Affairs

Date December 13, 1993

(This space for Federal or State office use)

API NO. 43-013-31431

Approval Date

Approved by  
Conditions of approval, if any:

Title

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 12-20-93  
BY: J. Matthews

649-3-2

\*See Instructions On Reverse Side

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/14/93

API NO. ASSIGNED: 43-013-31431

WELL NAME: BALCRON MONUMENT FEDERAL 12-17  
OPERATOR: EQUITABLE RESOURCES (N9890)

PROPOSED LOCATION:

SWNW 17 - T09S - R17E  
SURFACE: 1980-FNL-0660-FWL  
BOTTOM: 1980-FNL-0600-FWL  
DUCHESNE COUNTY  
MONUMENT BUTTE FIELD (105)

LEASE TYPE: FED  
LEASE NUMBER: UTU-72106

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

Y Plat  
Y Bond FEDERAL MT 0576  
(Number 6547188 NATIONWIDE)  
N Potash (Y/N)  
N Oil shale (Y/N)  
H Water permit  
(Number BY SUMMARY)  
H RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
X R649-3-2. General.  
\_\_\_\_ R649-3-3. Exception.  
\_\_\_\_ Drilling Unit.  
\_\_\_\_ Board Cause no: \_\_\_\_\_  
\_\_\_\_ Date: \_\_\_\_\_

COMMENTS: WELL IS (NOT) IN A SECONDARY RECOVERY UNIT.

(INFILL LOCATION)

STIPULATIONS: 1. WATER SQUARE PERMIT WILL BE NOTICED BY  
SUMMARY PRIOR TO SPUD

CONFIDENTIAL  
PERIOD  
EXPIRED  
ON 8-5-95





**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

December 21, 1993

Equitable Resources Energy Company  
P.O. Box 21017  
Billings, Montana 59104

Re: Balcron Monument Federal #12-17 Well, 1980' FNL, 660' FWL, SW NW, Sec. 17,  
T. 9 S., R. 17 E., Duchesne County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after commencing drilling operations.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or Mike Hebertson, Oil and Gas Field Specialist, (Home) (801)269-9212.
6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.



Page 2

Equitable Resources Energy Company  
Balcron Monument Federal #12-17 Well  
December 21, 1993

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-013-31431.

Sincerely,

A handwritten signature in black ink, appearing to read 'R.J. Firth', is written over a printed name.

R.J. Firth  
Associate Director, Oil and Gas

Idc

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal

WOI1

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
(Place stamp on reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

3 0 9 1994

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER ☐

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

EQUITABLE RESOURCES ENERGY COMPANY, Balcron Oil

3. ADDRESS OF OPERATOR

P.O. Box 21017; Billings, MT 59104

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface SW NW Section 17, T9S, R17E 1980' FNL, 660' FWL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

From Myton, Utah, approximately 16 miles southwest.

10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH  
6,000'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 5407.9'

22. APPROX. DATE WORK WILL START\*

Upon APD approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
		See attached		

EXHIBITS ATTACHED

"A" PROPOSED DRILLING PROGRAM  
"B" PROPOSED SURFACE USE PROGRAM  
"C" GEOLOGIC PROGNOSIS  
"D" DRILLING PROGRAM/CASING DESIGN  
"E" HAZMAT DECLARATION  
"F" SURVEY PLAT  
"G" RIG LAYOUT

"H" BOPE DIAGRAM  
"I" EXISTING ROADS (Map A)  
"J" PLANNED ACCESS (Map B)  
"K" EXISTING WELLS (Map C)  
"L" CUT & FILL DIAGRAM  
"M" ARCHEOLOGY REPORT  
"N" PROPOSED PRODUCTION FACILITY DIAGRAM

DEC 14 1993

SELF CERTIFICATION: I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT 0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Bobbie Schuman TITLE Coordinator of Environmental and Regulatory Affairs DATE December 13, 1993  
(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS  
CONDITIONS OF APPROVAL, IF ANY:

DATE FEB 02 1994

NOTICE OF APPROVAL

\*See Instructions On Reverse Side

**CONDITIONS OF APPROVAL**  
**APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Equitable Resources Energy Company

Well Name & Number: Monument Federal 12-17

API Number: 43-047-

Lease Number: U-72106

Location: SWNW Sec. 17 T. 9S R. 17E

**NOTIFICATION REQUIREMENTS**

- |                                 |   |   |
|---------------------------------|---|---|
| Location Construction           | - | at least forty-eight (48) hours prior to construction of location and access roads.   |
| Location Completion             | - | prior to moving on the drilling rig.  |
| Spud Notice                     | - | at least twenty-four (24) hours prior to spudding the well.   |
| Casing String and Cementing     | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings.   |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests.   |
| First Production Notice         | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the usable water zone identified at  $\pm 322$  ft. or by setting the surface casing at  $\pm 372$  ft. and have a cement top for the production casing at least 200 ft. above the Mahogany Oil Shale, identified at  $\pm 2624$  ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to  $\pm 2,424$  ft. if the surface casing is set at  $\pm 372$  ft. or it will be run to  $\pm 122$  ft. if the surface casing is set at  $\pm 260$  ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and within 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."



If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka      (801) 781-1190  
Petroleum Engineer

Ed Forsman              (801) 789-7077  
Petroleum Engineer

BLM FAX Machine      (801) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.

**SURFACE USE PLAN OF OPERATION**  
Conditions of Approval (COAs)

Methods for Handling Waste Disposal

The reserve pit liner will have sufficient bedding (straw or dirt) to cover rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc..., that could puncture the liner will be deposited in the pit.

The requested emergency pit is hereby approved under Onshore Order No. 7, subject to the following Conditions of Approval:

1. The emergency pit shall be fenced and the fence maintained for safety, and to prevent livestock and wildlife entry. The pit shall be fenced according to the same minimum standards listed for drilling the reserve pit under Point 9E of the Multi-point Surface Use and Operation Plan. The fence shall be maintained in a taut condition. Fences shall not be built on berms.
2. Turn downs shall be put on the ends of pipes to direct fluids downward instead of against the wall of the pit.

Additional Surface Conditions of Approval

If paleontologic resources are found or uncovered during ground disturbing activities, Balcron will suspend all operations that would further disturb such materials and immediately contact the BLM Authorized Officer.

Construction of the access road must be monitored by a qualified paleontologist.

A complete copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The operator or his/her contractor shall contact the BLM Office at (801) 789-1362 forty-eight (48) hours prior to construction activities.

The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

If the proposed oil well is scheduled for development between March 15 and August 15, additional surveys for mountain plovers will be required a minimum of 14 days prior to surface disturbance. Contact the Authorized Officer of the BLM for specific procedures.

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: EQUITABLE RESOURCES

WELL NAME: BALCRON MONUMENT FEDERAL 12-17

API NO. 43-013-31431

Section 17 Township 9S Range 17E County DUCHESNE

Drilling Contractor UNION DRILLING CO.

Rig # 17

SPUDDED: Date 5/31/94

Time 8:00 PM

How ROTARY

Drilling will commence

Reported by AL PLUNKETT

Telephone # 1-823-6759

Date 5/31/94 SIGNED DLI

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcon Oil Division

3. Address and Telephone No.

P.O. Box 21017, Billings, MT 59104 (259-7860)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW NW Section 17, T9S, R17E  
1980' ENL, 660' FWL

5. Lease Designation and Serial No.

UIU-72106

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcon Monument Federal #12-17

9. API Well No.

43-013-31431

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other Report of Spud.

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

This well was spud on 5-31-94 at 1:00 p.m. by Union Drilling Rig #17.

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman

Regulatory and

Title Environmental Specialist

Date 5-31-94

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

OPERATOR Equitable Resources Energy Company  
Balcron Oil Division  
ADDRESS P.O. Box 21017  
Billings, MT 59104  
(406) 259-7860

OPERATOR ACCT. NO. N 9890  
- 3 1994

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11640	43-013-31431	Balcron Monument Federal #12-17	SW NW	17	9S	17E	Duchesne	5-31-94	5-31-94
WELL 1 COMMENTS: Spud of a new well. <i>Entity added 6-9-94 Lc</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)  
A - Establish new entity for new well (single well only)  
B - Add new well to existing entity (group or unit well)  
C - Re-assign well from one existing entity to another existing entity  
D - Re-assign well from one existing entity to a new entity  
E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.  
(3/89)

Date: 5-31-94

Bobbie Schuman  
Signature  
Regulatory & Environmental Specialist  
Title  
Phone No. 406 , 259-7860

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.  
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SW NW Sec. 17; T9S, R17E  
1980' FNL, 660' FWL

5. Lease Designation and Serial No.  
UTU-72106

6. If Indian, Allottee or Tribe Name  
n/a

7. If Unit or CA, Agreement Designation  
n/a

8. Well Name and No.  
Balcron Monument Fed. # 12-17

9. API Well No.  
43-013- 31431

10. Field and Pool, or Exploratory Area  
Monument Butte/Green River

11. County or Parish, State  
Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>change in drilling</u>
	<u>water source</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Operator proposes to change the drilling water source on this well from the sources noted in the approval Application for Permit to Drill (APD) to a source permitted as shown on attached permit (Application #a17992, Water right #47-1437). Ownership is Keith Hicken c/o Dalbo Inc.

RECEIVED BY THE STATE  
DIVISION OF  
OIL, GAS, AND MINING

5-16-94  
*J. Matthews*

RECEIVED

MAY 13

OF OIL, GAS

14. I hereby certify that the foregoing is true and correct  
Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date May 11, 1994  
(This space for Federal or State office use)  
Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

# APPLICATION FOR TEMPORARY CHANGE OF WATER

## STATE OF UTAH

Rec. by \_\_\_\_\_

Fee Paid \$ \_\_\_\_\_

Receipt # \_\_\_\_\_

Microfilmed \_\_\_\_\_

Roll # \_\_\_\_\_

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

CHANGE APPLICATION NUMBER: a17992

WATER RIGHT NUMBER: 47 - 1437

\*\*\*\*\*  
This Change Application proposes to change the PLACE OF USE and NATURE OF USE.  
\*\*\*\*\*

### 1. OWNERSHIP INFORMATION.

A. NAME: Keith Hicken  
c/o Dalbo Inc.  
ADDRESS: Route 3, Myton, UT 84052

B. PRIORITY OF CHANGE: April 18, 1994

FILING DATE: April 18, 1994

C. RIGHT EVIDENCED BY: A26762

\*\*\*\*\*  
\* DESCRIPTION OF CURRENT WATER RIGHT: \*  
\*\*\*\*\*

### 2. SOURCE INFORMATION.

A. QUANTITY OF WATER: 1.85 cfs

B. DIRECT SOURCE: Gorman Draw

COUNTY: Duchesne

C. POINT OF DIVERSION -- SURFACE:

(1) N 475 feet W 40 feet from S1 corner, Section 12, T 4S, R 2W, USBM

### 3. STORAGE. Water is diverted for storage into:

(1) Gorman Draw reservoir, from Jan 1 to Dec 31.

CAPACITY: 80.000 ac-ft.

Area inundated includes all or part of the following legal subdivisions:

BASE TOWN RANG SEC	NORTH-EAST				NORTH-WEST				SOUTH-WEST				SOUTH-EAST			
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
SL 4S 2W 12					■ ■ ■				■ ■ ■			X X	■ ■ ■			X
13		X			■ ■ ■	X	X		■ ■ ■				■ ■ ■			

Temporary Change



## 4. WATER USE INFORMATION.

The Water Right represented by this change application is SUPPLEMENTAL to other Water Rights.

IRRIGATION: from Apr 15 to Oct 15. IRRIGATING: 82.70 acres.  
SOLE SUPPLY: 50.00 acres

## 5. PLACE OF USE. (Which includes all or part of the following legal subdivisions:)

BASE TOWN	RANG	SEC	NORTH-EAST				NORTH-WEST				SOUTH-WEST				SOUTH-EAST			
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
SL	4S	2W	12															
			13	X												X		X

## 6. EXPLANATORY.

FLOW: Claims 1350 and 1437 limited to a combined flow of 1.85 c.f.s.

THE FOLLOWING CHANGES ARE PROPOSED:

## 7. SOURCE INFORMATION.

- A. QUANTITY OF WATER: 4.0 acre-feet REMAINING WATER: Same as HERETOFORE
- B. DIRECT SOURCE: Unnamed Pond COUNTY: Duchesne
- C. POINT(S) OF DIVERSION -- SURFACE: Same as HERETOFORE.
- D. COMMON DESCRIPTION: 4 miles south of Myton

## 8. STORAGE. Same as HERETOFORE

## 9. WATER USE INFORMATION. Changed as Follows:

OIL EXPLORATION from Apr 18 to Apr 17. Drilling and completion of wells in the  
Monument Buttes & South Myton Areas.

## 10. PLACE OF USE. Changed as Follows:

## 11. SIGNATURE OF APPLICANT(S).

The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application, through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Signature of Applicant(s)

## 12. SIGNATURE OF APPLICANT(S).

The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application, through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Keith Hickman by Ken  
Signature of Applicant(s) Be

# WELL REPORT

Balcron Oil  
Monument Federal 12-17  
SW NW Sec 17-T9S-R17E  
Duchesne County, *43-013-31431* Utah

## CONFIDENTIAL

FRANK A. RADELLA, INC.

Oil & Gas Exploration & Consulting  
1610 Lewis Suite 202E  
Billings, Montana 59102

FRANK A. RADELLA  
Ofc. 406-245-5375

Res. 656-7215

**FRANK A. RADELLA, INC.**

---

Oil & Gas Exploration & Consulting

1601 Lewis Ave.  
Billings, Montana 59102  
(406) 245-5375

Balcron Oil  
Monument Federal 12-17  
SW NW Section 17-T9S-R17E  
Duchesne County, Utah

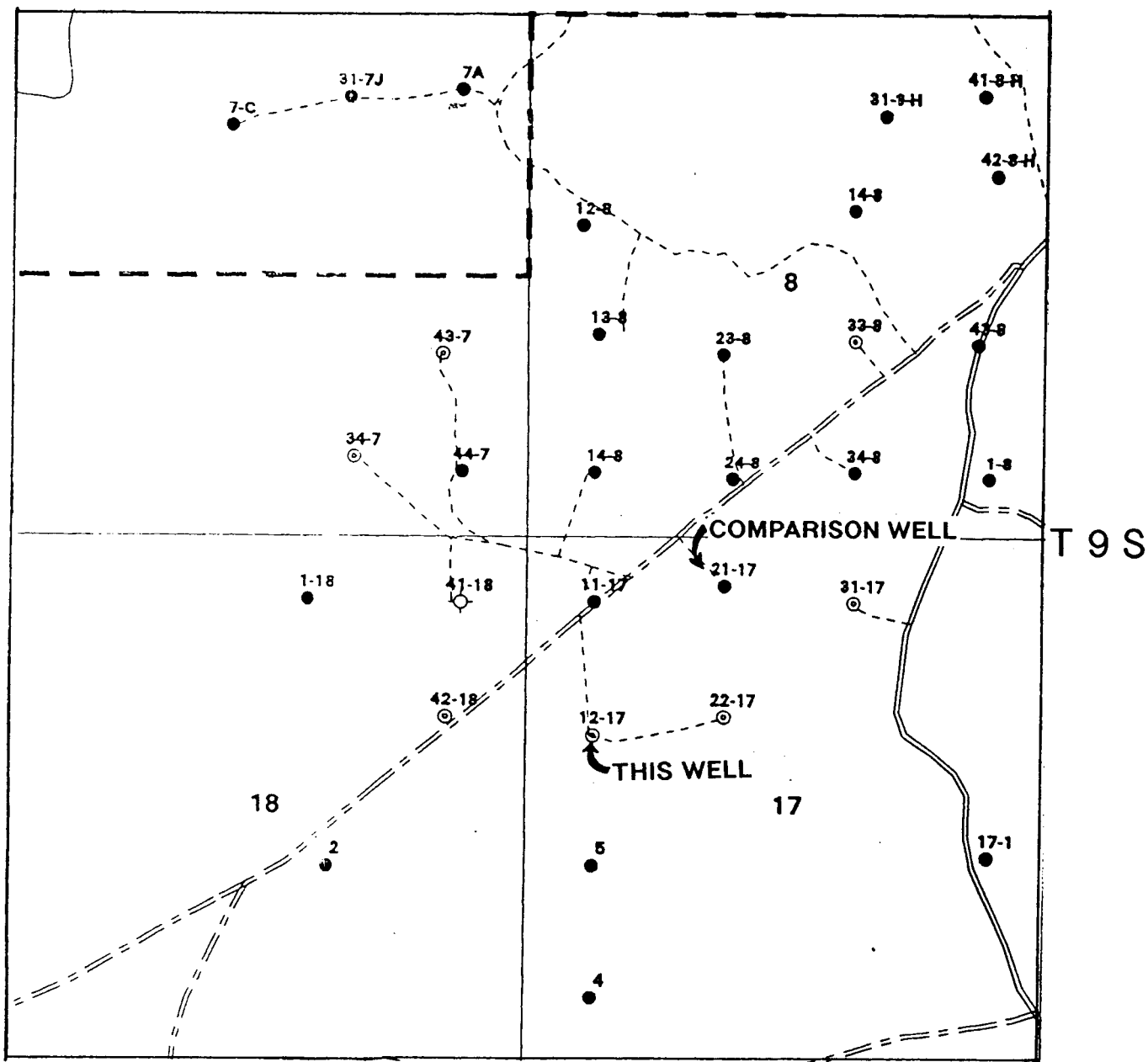
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10	Sample Descriptions
Insert	Drill Time-Litholog

by

Frank A. Radella  
Certified Petroleum Geologist  
AIPG AAPG

R 17 E



## LOCATION MAP

PORTION OF MONUMENT BUTTE FIELD

DUCHESNE CO., UTAH

**FRANK A. RADELLA, INC.**  
Oil & Gas Exploration & Consulting

1601 Lewis Avenue Suite E  
Billings, Montana 59102  
(406) 245-5375

<u>OPERATOR:</u>	Balcron Oil
<u>WELL NAME:</u>	Monument Butte-Federal 12-17
<u>LOCATION:</u>	SW NW Section 17(1980' FNL x 660' FWL) T9S-R17E
<u>COUNTY:</u>	Duchesne
<u>STATE:</u>	Utah
<u>ELEVATIONS:</u>	GL 5407.9 KB 5416
<u>SPUD DATE:</u>	5-31-94 @ 1:00 PM
<u>OUT FROM UNDER SURFACE CASING:</u>	6-2-94 @ 3:30 AM
<u>REACH T.D.:</u>	6-9-94 @ 9:15 PM
<u>RIG RELEASE:</u>	6-10-94 @ 6:00 PM
<u>DAYS TO SPUD TO T.D.:</u>	10
<u>DAYS SPUD THROUGH LOGGING.:</u>	10 <u>TO RIG RELEASE:</u> 11
<u>TOTAL DEPTH:</u>	5650' Driller - 5672' Logger
<u>HOLE SIZE:</u>	12 1/4" 0 -395' - 7 7/8" 395-5650'
<u>STATUS:</u>	To complete as an Oil Well
<u>PENETRATION:</u>	336 feet below the Top of the Carbonate Marker
<u>GEOLOGIST:</u>	Frank A. Radella - consultant
<u>DRILLING ENGINEER:</u>	Al Plunkett - consultant
<u>LOGGING PROGRAM:</u>	Halliburton, Engineer - E. Vogel, Truck 52546 Vernal , Utah Dual Laterolog-GR-Cal 380 - 5670' Spectral Density, Dual Spaced Neutron 3500 - 5627'
<u>LOST CIRCULATION OR DRILLING PROBLEMS:</u>	None
<u>DRILL TIME LOGS:</u>	1400-4100' 2" = 100' Radella 3850-5650 5" = 100' Radella
<u>SAMPLE DISPOSAL:</u>	Utah Geological Survey
<u>MUD LOGGING EQUIPMENT:</u>	Monaco 2 man Unit with Hot Wire and chromatograph on @ 1350'. Loggers - Chris Jensen and Charles Crocker
<u>CORES:</u>	none
<u>DSTs:</u>	none
<u>SURFACE CASING:</u>	370' 8 5/8" set @ 380' RKB w/225 sx. See Drilling History for Details.
<u>PRODUCTION CASING:</u>	130 Jts. 5 1/2" set @ 5660.17" RKB with 285 sx. See Drilling History for Details.

Balcron Oil  
Monument Butte Federal 12-17  
SW NW Section 17-T9S-R17E  
Duchesne County, Utah

**K.B. 5416'**

<b><u>DUAL LATEROLOG TOP</u></b>	<b><u>DEPTH</u></b>	<b><u>DATUM</u></b>	<b><u>position of 12-17 compared to 21-17 (1)</u></b>
Uintah	Surface		
Green River	1418	(+3998)	57' High
Horsebench Sandstone	2085	(+3331)	81' High
2nd Garden Gulch	3700	(+1716)	68' High
Y-2 Sandstone	3969	(+1447)	NC
Yellow Marker	4318	(+1098)	79' High
Douglas Creek	4486	(+930)	74' High
2nd Douglas Creek	4716	(+700)	78' High
Green Marker	4850	(+566)	82' High
G-3 Sandstone	4932	(+484)	NC
Carbonate Marker	5336	(+80)	63' High
B-1 Sandstone	5394	(+22)	NC

**T.D. Driller 5652'**  
**T.D. Logger 5672'**

(1) Comparison Well: Balcron Oil 21-17  
Monument Butte Federal 21-17  
NE NW Section 17-T9S-R17E  
Located +/- 2000' Northeast of 12-17

# MUD LOG SHOWS AND POTENTIAL PRODUCTION ZONES

Balcron Oil  
Monument Butte Federal 12-17  
SW NW Section 17-T9S-R17E  
Duchesne County, Utah

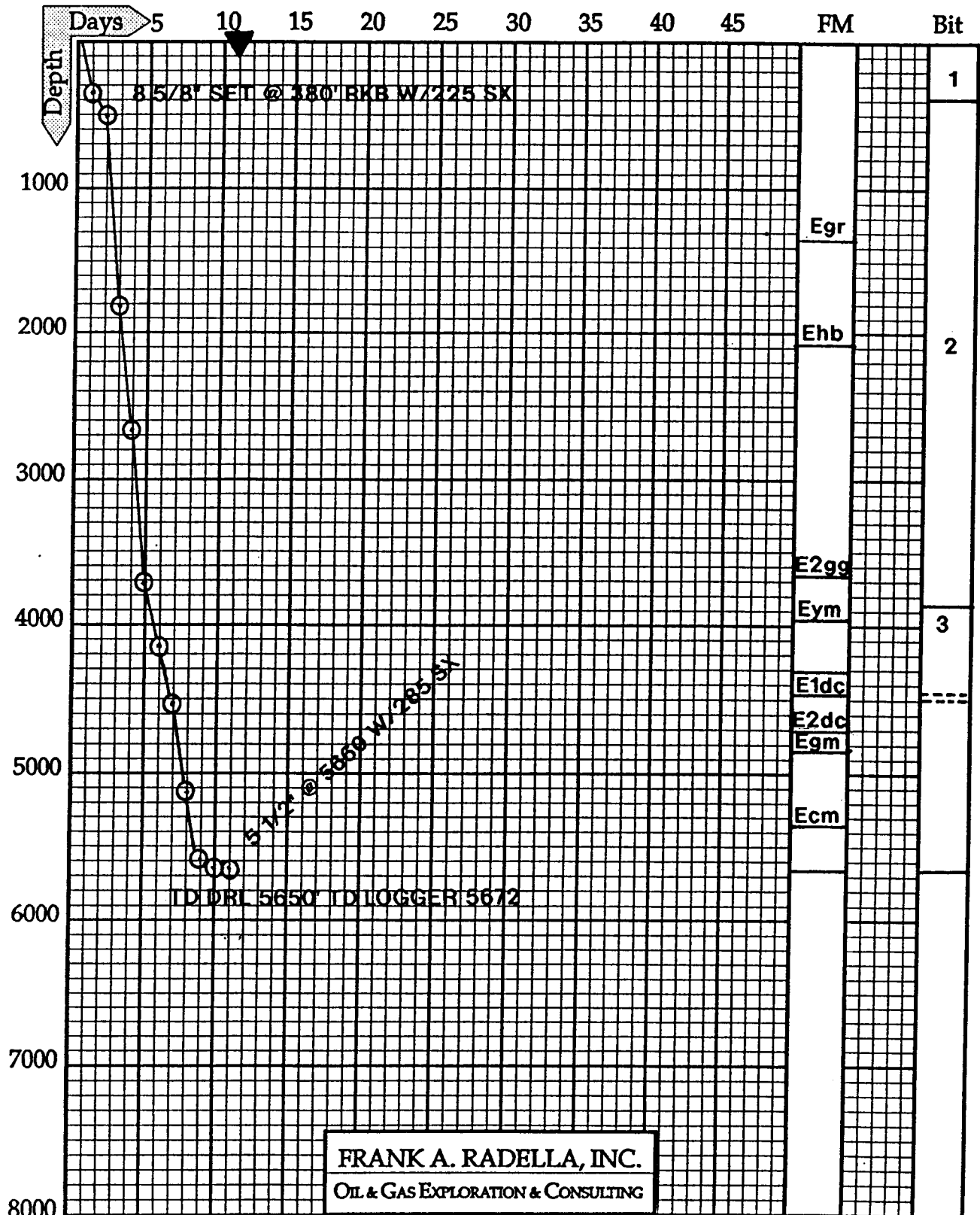
FM	Drill Depth & Log Depth	Drill			Rate			mpf			Total Gas			Chromatograph ppm xk					Geologist Observations	Field Analysis Production Type & Potential	*Probable Productive by logs
		Before	During	After	Before	During	After	Before	During	After	Before	Peak	After	C1	C2	C3	NC4	IC			
Y-2 Sandstone	3958-3970 3976-3984	4	2 1/2	2	15	100	50	7K	.4	.35	.1	.2							SS-tn, vf-f gr poor por, tan oil stn, fw pnpts oil, gd strn ct	Oil-Fair	
Y-2 Sandstone	3970-3986 3984-4000	2 3/4	1 3/4	3	50	550	20	40	3	2	.4	.5							SS-tn, lt brn, p-f por, gd even oil stn, abund speck of oil, m brt flr, gd inst strn ct	Oil-Good	*
Y-3 Sandstone	4004-4010 4018-4024	3	2	3	20	200	20	15	1.5	1.2	3	.25							SS-tn, tr pr por, dk brn oil specks, even md brt grn gold fluor, f-gd strn ct	Oil-Fair	
R-5 Sandstone	4652-4656 4665-4669	2	1	2	15	88	15	2.3	.6	.5	-	-							SS-tn, no vis por, lt tn oil stn, pale grn gold fluor, inst fr strn cut.	Oil-Fair	
	4748-4766 4762-4780	2	1 1/2	2	15	250	20	9	2	.8	.4	.3							SS-tn, lt brn, poor por, tn oil stn, spotty blk res, inst f to gd cut.	Oil-Fair	
G-3 Sandstone	4908-4932 4932-4954	3	2	3	20	800	80	50	9	5	1.5	2							SS-lt brn, tn, poor por, gd oil stn, abund specks dk brn oil, v pale fluor, gd inst strn cut.	Oil-Good	*
B-1 Sandstone	5368-5382 5386-5400	3	1 3/4 - 2 1/2	3	60	600	50	40	15	9	2	1.2							SS-tn, lt brn, f-m gr, lse gr, num spks dk brn o il in snd clstrs, pale grn gold fluor, globs hvy oil	Oil-Fair	



# PENETRATION CHART

BALCRON 12-17 MONUMENT FED

Total Days 11 Logs 2/1RUN  
Total Bits 3 Rotating Hours 155.5



[illegible]

### DRILLING FLUID DATA

<u>Date</u>	<u>Depth</u>	<u>*WT</u>	<u>*VIS</u>	<u>*PH</u>	<u>* CHL</u>	<u>KCL%</u>	<u>Daily Cost</u>	<u>Cum Cost</u>
6-3-94	1811	8.3	26		6500	1.3	\$ 550	\$ 550
6-4-94	2680	8.3	26				200	750
6-5-94	3717	8.4	26		6000	1.3	300	1050
6-6-94	4150	8.4	26	10.2	6100	1.2		1050
6-7-94	4530	8.4	26	10.2	6100	1.2	100	1150
6-8-94	5125	8.4	26	9.8	6200	1.2		1150
6-9-94	5595	8.4	26	9.8	6200	1.3	210	1360
6-10-94	5650	8.4	26	9.8	6150	1.2		1360
<b>Field Total (estimates)</b>								<b>\$1360</b>

\*Make up water characteristics

Balcron Oil  
Monument-Federal 12-17  
SW NW Section 17-T9S-R17E  
Duchesne County, Utah

**Daily Drilling History**

Data compiled from the records of Al Plunkett, drilling consultant, and tower sheets. The depth reported is at 6:00 AM followed by current activity, followed by the previous 24 hour's activity. The daily footage and rotating hours are followed by total rotating hours to date.

Day    Date

1.    6-1-94    Depth 360'; Drilling in Uintah Formation:  
Move in, rig up, drill and set conductor pipe. Install air head, spud 12 1/4" hole @ 1:00 PM on 5-31-94. Drilling with air.  
Drilled 360' in 13 rotating hours (RH) Cumulative rotating hours (Cum RH) 13.
2.    6-2-94    Depth 501'; Drilling in Uintah Formation:  
Drill 12 1/4" hole to 395', blow hole, trip out, nipple down air head and conductor. Ran 9 Jts (370') 8 5/8", 24#/ft. J-55 casing set at 380' RKB. Cement w 2% CaCl + 1/4#/sx Celloflake, 2 BBL cement circulated to pit. Plug down @ 11:00 AM on 6-1-94. Test BOP & manifold to 2000 psi, OK. Test casing to 1500 psi, OK. Trip in hole, drill cement. Drill out from under surface casing @ 3:30 AM on 6-2-94.  
Drilled 30' 12 1/4" hole in 1 1/2 hours. Drilled 106' 7 7/8" hole in 2 1/2 hours. Daily total RH 4, Cum RH 17.
3.    6-3-94    Depth 1811'; Drilling in Green River Formation:  
Drill with air and mist, survey, see Bit record for surveys, drilling data and Bit Record.  
Drilled 1310' in 21 1/2 RH, Cum RH 38 1/2.
4.    6-4-94    Depth 2680'; Drilling in Green River Formation:  
Drill with air and mist, survey, trip to pick up 4 drill collars, blow hole, drill. Drilled 869' in 14 1/4 RH, Cum RH 52 3/4.
5.    6-5-94    Depth 3717'; Drilling in Green River Formation:  
Drill with air and mist.  
Drilled 1037' in 22 1/4 RH, Cum RH 75.
6.    6-6-94    Depth 4150'; Drilling in Green River Formation - Yellow Zone:  
Drill with air and mist to 3847'. Fill hole and circulate KCL water. Trip for Bit #3, drill with KCL water, survey.  
Drilled 433' in 17 RH, Cum RH 92.

7. 6-7-94 Depth 4530'; Drilling in Green River Formation - Yellow Zone:  
Drill, survey. Trips @ 4454' and @ 4499' for holes in drill pipe.  
Lay down 1 Jt each trip. Drill.  
Drilled 380' in 15 1/4 RH, Cum RH 107 1/4.
8. 6-8-94 Depth 5125'; Drilling in Green River Formation - Green Zone:  
Drill, survey.  
Drilled 595' in 23 1/4 RH, Cum RH 130 1/2.
9. 6-9-94 Depth 5595'; Drilling in Green River Formation - Blue Zone:  
Drill, work on pit pump, drill.  
Drilled 470' in 22 RH, Cum RH 152 1/2.
10. 6-10-94 T.D. 5650' in Green River Formation - Blue Zone:  
Drill, reached T.D., Driller 5650' @ 9:15 AM on 6-9-94. Circulate for logs, trip, log with Halliburton 1 run, 2 logs in Tandem. Logger T.D. 5672' - Driller T.D. 5650'. Repair Short in logging wire line, attempt select wireline tests over 3 intervals with no success. Trip in, trip out laying down drill pipe.  
Drilled 77' in 3 RH, Cum RH 155 1/2.
11. 6-11-94 T.D. 5650'; Moving rig off location:  
Layed down drill pipe and drill collars. Change pipe rams and check to 2000 psi, OK. Ran casing as follows:

guide shoe	.60	
1 Jt 5 1/2" 15.50#/ft csg shoe Jt.	42.92	
float collar	1.00	
129 Jts 5 1/2" 15.50#/ft K-55 csg	<u>5606.65</u>	
	5651.17	
Landing Jt.	<u>9.00</u>	
set @	5660.17	RKB
PBTD	5616.65	

Ran 20 centralizers. Cemented by Dowell with 115 sx Hilift and tail with 170 sx 10-0 RFC. Plug down 2:00 PM on 6-10-94. Rig released @ 6:00 PM on 6-10-94.

Balcron Oil  
Monument Butte 12-17  
SW NW Section 17-T9S-R17E  
Duchesne County, Utah

**Sample Descriptions**  
by

Frank A. Radella

Samples were run wet for color, texture and Lithology, dry for porosity and both wet and dry for shows and fluorescence. Cutting agent was Trichlorothene. Geologist was on location from 1400' to T.D. and for logs. Descriptions are lagged to Induction log depths.

Shows of oil are underlined. Log tops are indicated below. Drill cuttings were extremely fine (rarely exceeding .50 mm.) but were of good quality unless noted otherwise.

A two man Monaco mud log unit with hot wire and chromatograph was utilized from 1350' to T.D. Mud Loggers caught lagged samples. The drilling fluid from 380' to 3847' was air and mist using KCL makeup water, from 3847' to T.D. the drill fluid was 1 to 1.5% KCL water. Loggers T.D. of 5672' is 22' deeper than driller's T.D. of 5650'. Sample descriptions are adjusted 14 to 22 feet downhole to match logger's depth.

**Sand Grain Size Parameters**

Silt	.004 - .062 mm
Very fine grained	.062 - .125 mm
Fine grained	.125 - .250 mm
Medium grained	.250 - .50 mm
Coarse grained	.50 - + mm

**Sample Program**

1350 - 3850'	50' samples
3850 - 5650' T.D.	10' samples

**50' Lagged Samples**

1350 - 1420	Sandstone: white, very fine grained, clear to milky quartz, scattered black grains, pyritic, mostly loose grains, no show; Siltstone: white, light gray, dolomitic.
-------------	---

### GREEN RIVER 1418' (+3998')

- 1420 - 1470 Shale: light orange-brown, dolomitic, pyritic, waxy, oil shale, weak milky cut, much stronger milky cut when crushed, source rock, floats on water; Shale: light gray, pyritic, waxy.
- 1470 - 1720 Shale: light orange-brown.
- 1720 - 1770 trace of loose Sand grains: very fine, sub-angular, clear to milky quartz grains; Shale: as above.
- 1770 - 1920 Shale: light orange-brown, as above, light gray cast in part, pyritic, blocky.
- 1920 - 1970 trace of Sand grains: white, very fine grained, angular to sub-angular, pyritic, few black grains, no show; Shale: as above.
- 1970 - 2070 Shale: light orange-brown, dolomitic, pyritic, oil shale; trace light gray cast.

### HORSEBENCH SANDSTONE 2085' (+3331')

- 2070 - 2120 Sand grains: white, very fine to fine, white to clear angular clusters, no visible porosity, no show; Shale: as above.
- 2120 - 2170 Shale: light gray, silty, dolomitic; Sandstone: white, very fine to fine, trace medium grains, angular to sub-angular quartz grains, poor sorting, pyritic, white dolomitic cement, no visible porosity, moderate amount loose grains, few black grains, no show.
- 2170 - 2220 Shale: light orange brown to gray brown.
- 2220 - 2270 Shale: dark brown, waxy, dolomitic, oil shale.
- 2270 - 2420 Shale: light orange brown, waxy, sub-blocky, oil shale, trace with light gray, cast, silty.
- 2420 - 2470 Dolomite: very light gray, microcrystalline, firm, platy; Shale: light orange brown, as above.
- 2470 - 2520 Dolomite: as above; Shale: dark brown, waxy, pyritic; Shale: as above.
- 2520 - 2570 Shale: light gray, silty, dolomitic; Sandstone: white, very fine to fine, trace medium grained, angular to sub-angular quartz grains, poor sorting, pyritic, white dolomitic cement, no visible porosity, moderate amount loose grains, few black grains, no show.
- 2570 - 2620 Sandstone: white, very fine grained, white, slightly dolomitic cement, no porosity, no show; Sandstone: white, very fine to fine, trace medium grained, sub-angular to angular, poorly sorted, mostly loose grains, many split, few black grains, no show apparent.
- 2620 - 2670 Sandstone: as above with; trace of Shale: light gray.

2670 - 2720	Shale: light gray to light gray brown, pyritic, dolomitic, platy; trace of Sandstone: as above.
2720 - 2770	Shale: dark brown, waxy, dolomitic.
2770 - 2820	Shale: light to dark brown, as above, trace micaceous; trace Sand grains; white, sub-round to angular, some split, very fine to fine grained, clear, milky and amber colored quartz grains.
2820 - 2870	Siltstone: white, dolomitic cement, siliceous in part, trace salt and pepper, no visible porosity, pyritic, no show; Shale: light gray, silty, sandy, pyritic; Shale: light brown, as above, moderate amount loose grains, as above.
2870 - 2920	Siltstone: light gray, abundant loose very fine to fine quartz grains; Shale: light tan.
2920 - 2970	Shale: light tan, slightly dolomitic, floats on water, <u>oil shale</u> : Shale: gray, tan, very pyritic.
2970 - 3070	Sandstone: white, very fine grained, grades to Siltstone: white, pyritic, platy; moderate amount loose very fine to fine sub-angular quartz grains, some split, no show apparent.
3070 - 3170	Limestone: white, micritic, platy; Shale: medium orange-brown, dolomitic, pyritic; trace loose grains: as above.
3170 - 3220	Shale: light to medium gray, trace silty, pyritic, platy; Limestone: white, as above, to cream, micritic.
3220 - 3270	Increase in Shale: gray, as above; Limestone: as above.
3270 - 3320	Limestone: light tan, silty, trace very fine sandy, micritic, trace very fine fragmental, no porosity.
3320 - 3420	Limestone: tan, micritic, very platy, trace sandy; trace of Sandstone: light gray, very fine grained, siliceous, no porosity, no show; trace of Shale: light gray, as above; moderate amount loose quartz grains: very fine to fine, sub-angular to angular.
3420 - 3470	Sandstone: white, light gray, very fine to fine grained, sub-angular to angular, split grains, micaceous, mostly loose grains with few tight clusters; Shale: light gray, silty.
3470 - 3520	Sandstone: as above, trace salt and pepper, poorly sorted, <u>trace of oil stain, poor show</u> ; Shale: light gray, sandy, pyritic.
3520 - 3620	Shale: light orange brown, to dark brown, waxy, trace pyritic.
3620 - 3670	Shale: as above; trace of Sandstone: white, very fine grained, well cemented, no porosity, no show.



## **2nd Garden Gulch 3700' (+1716)**

- 3670 - 3720 Limestone: white, cream, tan, microcrystalline; Shale: light brown, as above; Sandstone: no porosity, no show.
- 3720 - 3770 Sandstone: white, light gray, very fine grained, well sorted, few tight clusters, pyritic, no visible porosity, trace light tan oil stain, with very weak slow milky cut, poor show; trace Limestone: white, as above; trace Shale: light gray, sandy.
- 3770 - 3820 Sandstone: white, light gray, very fine grained, well sorted, few tight clusters, pyritic, no visible porosity, trace light tan oil stain, very weak slow milky cut, poor show; trace of Limestone: as above; trace of Shale: light gray, sandy.
- 3820 - 3866 Shale: medium gray, sandy, silty; Sandstone: light gray, very fine grained, argillaceous, no porosity, no show; Sandstone: white, as above, no porosity, no show.

**Trip @ 3846' Driller = 3867' Logger. Convert from air-mist drilling fluid to KCL water.**

### **Start 10' Samples.**

- 3866 - 3880 Shale: light gray, silty to very fine sandy, micaceous, dolomitic, platy; grading to Siltstone: light gray.
- 3880 - 3890 Sandstone: light gray, very fine grained, argillaceous, no porosity, no show; Shale: as above; trace of Limestone: white, amorphous, argillaceous.
- 3890 - 3910 As above: trace of Sandstone: white, very fine to fine grained, well sorted, trace black grains, white, calcareous cement, trace pyritic, no porosity, no show.
- 3910 - 3920 Trace of Limestone: tan, oolitic, well cemented, sandy, no visible porosity, light oil stain, pale fluorescence, slow weak streamer cut, poor show; trace of Sandstone: tan, very fine grained, well cemented, siliceous, light brown oil stain, fair blossom cut, no visible porosity.
- 3920 - 3930 Shale: light orange brown; trace loose ostracods: tan, calcareous; trace of Sandstone: white, very fine to fine grained, no porosity, no show.
- 3930 - 3950 Moderate amount loose gray round pellets and tan ostracods, and a few oolites; Shale: gray, sandy, silty; with Sandstone: light gray, argillaceous.
- 3950 - 3960 Siltstone: light gray, argillaceous, few loose pellets and ostracods; Sandstone: very fine grained, light gray to white, no porosity, no show.
- 3960 - 3970 As above; with Shale: dark brown, waxy.

## **Y-2 SANDSTONE 3969' (+1447')**

- 3970 - 3980 Sandstone: white, very fine to fine grained, fair sorting, white calcareous cement, trace salt and pepper, argillaceous in part, trace of light oil stain, no porosity, very weak cut.

- 3980 - 3990 Sandstone: tan, very fine to fine grained, fair to good sorting, noncalcareous cement, tan oil stain, with few pinpoint specks of oil, poor intergranular porosity, good light oil stain, good instant streamer cut, pale green golden fluorescence.
- 3990 - 4000 Sandstone: tan to light brown, very fine to fine grained, sub-angular, trace sub-round, clear to opaque quartz, poor to trace fair porosity, moderately friable, good even oil stain with abundant specks of dark brown oil when wet, blends into chip when dry, instant good streamer cut, medium bright green golden fluorescence, moderate amount loose grains. Better show than 3980 - 3990'.
- 4000 - 4010 As above, with few loose medium sub-angular quartz grains, abundant specks of dark brown oil, as above, good show, as above.
- 4010 - 4020 Shale: light gray, silty, very fine sandy, slightly dolomitic, platy; Siltstone: light gray, argillaceous; trace of Sandstone: white, salt and pepper, very fine to fine grained, calcareous cement, no porosity, no show.
- 4020 - 4030 Sandstone: tan, very fine, sub-angular, few gray to black grains, well sorted, slightly dolomitic cement; trace of poor porosity, moderate amount specks of dark brown oil when wet, light tan overall stain dry, even medium bright green gold fluorescence, slow fair to good streamer cut, fair to good show. Not as good show as 3990 - 4000'.
- 4030 - 4070 Sandstone: white to light gray, very fine to fine grained, pyritic, white calcareous cement in part, no porosity, no show, argillaceous in part; interbedded with Shale: light gray, silty, sandy; few loose gray pellets; trace of Shale: orange-brown.
- 4070 - 4080 Sandstone: white, light gray, very fine to fine grained, trace salt and pepper, poorly sorted, sub-angular, argillaceous in part, few chips with light tan oil stain, poor cut; Shale: light gray, gray brown, trace orange brown.
- 4080 - 4090 Sandstone and Shale: as above; with increase in Shale: orange-brown, waxy, silty; trace of gray pellets in white limey matrix.
- 4090 - 4100 Shale: medium orange brown, dolomitic, waxy, oil shale, slow weak streamer cut; trace of Limestone: tan, micritic, platy.
- 4100 - 4120 Shale and Limestone: as above; Shale: medium gray, few tan ostracods and dark gray pellets; trace of Sandstone: light gray, very fine grained, argillaceous, trace salt and pepper, poorly sorted, no porosity, no show.
- 4120 - 4140 Siltstone: light gray, argillaceous; grading to Sandstone: light gray, very fine grained, trace salt and pepper, argillaceous, no porosity, no show; few loose ostracods and pellets.
- 4140 - 4170 Shale: light to medium gray, trace silty; trace of Shale: orange brown and gray brown.

- 4170 - 4180 Sandstone: white, light gray, very fine to fine grained, sub-angular, well sorted, white dolomitic cement, clear to white quartz grains, no visible porosity, no show; Siltstone: light gray, sandy, argillaceous.
- 4180 - 4210 Shale: dark brown, waxy, dolomitic, oil shale; trace of Shale: medium gray, platy.
- 4210 - 4220 Limestone: cream, white, ostracodal, micritic matrix, many loose ostracods, no porosity; Shale: dark brown, as above.
- 4220 - 4230 Siltstone: light gray, argillaceous; trace of Sandstone: light gray, argillaceous, silty, micaceous, no porosity, no show.
- 4230 - 4250 Increase in Siltstone: light gray, as above, pyritic; Sandstone: as above; trace of Limestone: white, light gray, amorphous, chalky, argillaceous.
- 4250 - 4260 Siltstone, Shale and Sandstone: as above.
- 4260 - 4270 Sandstone: white, very fine grained, well sorted, white calcareous cement, pyritic, micaceous, no porosity, no show; trace of Shale: light gray, as above.
- 4270 - 4280 Sandstone: white, very fine to trace medium grained, poorly sorted, angular to sub-angular, clear to milky quartz grains, scattered gray grains, many loose grains, some split, no porosity, no show.
- 4280 - 4290 Shale: dark gray brown, dark gray, trace dark brown.
- 4290 - 4310 Sandstone: white, light gray, very fine to fine grained, quartzitic, glassy, moderate amount loose grains, split, no porosity, no show; Shale: light gray.
- 4310 - 4320 Shale: dark brown, waxy, oil shale; Shale: tan, dolomitic; Limestone: cream, ostracodal, no porosity, no show.

#### YELLOW MARKER 4318' (+1098')

- 4320 - 4330 Sandstone: white, very fine to fine, occasional black grain, poorly sorted, few tight clusters, mostly loose grains, some split, no porosity, no show; Shale: light brown, waxy, dolomitic.
- 4330 - 4350 Sandstone: white, very fine to fine, clear to opaque, angular to sub-angular quartz, mostly loose grains, rare chips with black oil stain, few loose ostracods, increasing with depth.
- 4350 - 4360 Abundant loose ostracods, mostly whole, some broken, tan, calcareous, with 50% sand grains, as above.
- 4360 - 4370 Increasing Sand grains; as above, with decrease in ostracods; Shale: medium brown, waxy, oil shale.
- 4370 - 4380 Shale: orange brown, waxy, trace silty, dolomitic, blocky; Siltstone: light gray, argillaceous, platy; few loose Sand grains and ostracod fragments.

- 4380 - 4390 Siltstone: light gray, moderate amount loose fine to very fine quartz grains, no apparent show.
- 4390 - 4410 Sandstone: light gray, very fine to fine grained, siliceous, platy, no porosity, no show; Shale: brown, as above.
- 4410 - 4420 Siltstone: light gray, argillaceous, platy; Sandstone: light gray, white, very fine grained.
- 4420 - 4440 As above; trace of Shale: light brown.
- 4440 - 4450 Shale: dark orange brown, waxy, oil shale; Shale: light gray, trace to medium silty, platy.
- 4450 - 4470 Sandstone: white, very fine grained, white calcareous cement, argillaceous in part, no porosity, no show; Shale: orange brown, trace green.
- 4470 - 4490 Shale: light gray, silty, very fine sandy; trace of Shale: medium brown.

**DOUGLAS CREEK 4486' (+930')**

- 4490 - 4500 Shale: medium to dark brown, trace silty, platy.
- 4500 - 4510 Shale: light gray, platy.
- 4510 - 4520 Sandstone: white, very fine grained, sub-angular, good sorting, white calcareous cement, no porosity, no show.
- 4520 - 4530 Shale: light gray, light to medium brown, silty in part; trace of Sandstone: white, very fine, trace medium grains, salt and pepper, poorly sorted, white calcareous cement, no porosity, no show.
- 4530 - 4540 Shale: medium gray, gray brown, trace silty, waxy, trace pyritic.
- 4540 - 4550 Shale: as above, with moderate amount loose gray round to oblong pellets.
- 4550 - 4560 Shale: light gray, as above, silty, very fine sandy; Sandstone: white to light gray, very fine grained, argillaceous in part, no porosity, no show.
- 4560 - 4570 Shale: as above predominates; decrease in Sandstone: as above.
- 4570 - 4580 Sandstone: white, very fine to fine grained, fair to good sorting, sub-angular to angular quartz grains, white noncalcareous cement, pyritic, abundant loose grains, no porosity, no show.
- 4580 - 4590 Shale: dark brown, light tan, light gray, trace pyritic, waxy; trace loose sand grains, few dark pellets.
- 4590 - 4600 Shale: as above; Sandstone: light gray, very fine grained, siliceous, no porosity, no show.
- 4600 - 4610 Sandstone: as above; Shale: dark brown, light gray, as above.

- 4610 - 4620 Sandstone: white to light tan, very fine to fine grained, fair to good sorting, sub-angular, no visible porosity, light tan oil stain in 25% of Sand, even pale golden fluorescence, instant weak streamer cut, poor show.
- 4620 - 4630 Shale: light gray, light tan, smooth, waxy, platy; trace of Sandstone: as above.
- 4630 - 4640 Sandstone: white to very light tan, very fine grained; Siltstone: white to light tan, both with light oil stain, very pale golden fluorescence, slow weak blossom cut, poor show.
- 4640 - 4650 Shale: light gray, trace silty, platy.
- 4650 - 4660 Sandstone: white to light tan, very fine grained, well cemented, light tan oil stain, poor cut, poor show; Shale: medium brown to light gray.
- 4660 - 4680 Sandstone: tan, very fine to fine grained, well sorted, slightly dolomitic cement, no visible porosity, fair overall tan oil stain, pale green golden fluorescence, instant fair streamer cut, fair show.
- 4680 - 4690 Sandstone: white, very fine grained, no porosity, no show; Shale: light gray, silty, platy; Shale: medium to dark brown, waxy, oil shale.
- 4690 - 4720 Shale: light, medium and dark brown predominates; trace of Shale: light gray.

## **2ND DOUGLAS CREEK 4716' (+700')**

- 4720 - 4730 Limestone: cream, micritic, platy; Shale: light tan, calcareous.
- 4730 - 4740 Shale: light gray, gray-green, gray brown, silty; trace of Sandstone: white, light gray, very fine grained, no porosity, no show.
- 4740 - 4760 Sandstone: white, very fine grained, well sorted, no porosity, no show.
- 4760 - 4770 Shale: light gray, platy.
- 4770 - 4780 Sandstone: tan, light brown, very fine to fine grained, sub-angular, poor intergranular porosity, tan oil stain, spotty black to dark brown residue, instant fair to good streamer cut, fair to good show; Shale: light gray; Sandstone: white, no porosity, no show.
- 4780 - 4800 Sandstone: white to light gray, very fine to fine grained, white noncalcareous cement, argillaceous, silty, no porosity, no show; Shale: light gray, silty.
- 4800 - 4830 Shale: light gray, trace silty; trace of Sandstone: as above; trace of Shale: medium brown.
- 4830 - 4850 Shale: dark brown, waxy, oil shale.

### **GREEN MARKER 4850' (+566')**

- 4850 - 4860 Shale: dark brown, as above, light brown, tan; trace of Limestone: cream, micritic.
- 4860 - 4890 Shale: light gray, silty; interbedded with Sandstone: light gray, very fine grained, silty, argillaceous, no porosity, no show.
- 4890 - 4900 Shale: light gray, gray brown.
- 4900 - 4910 Sandstone: white, very fine grained, well sorted, siliceous, platy, no porosity, no show; Shale: medium brown, waxy.
- 4910 - 4920 Shale: light gray, dark brown; trace of Sandstone: as above.
- 4920 - 4930 Siltstone: white, trace sandy, platy, no porosity, no show; Shale: light gray.

### **G-3 SANDSTONE 4932' (+484')**

- 4930 - 4940 Sandstone: light brown to tan, very fine to fine grained, angular to sub-angular, poor visible porosity, light brown overall oil stain, numerous specks of dark brown interstitial oil wet, specks not visible after drying, pale fluorescence, fair to good instant streamer cut.
- 4940 - 4950 Sandstone: as above, with increase in amount of specks of dark brown oil, fluorescence is about same, slightly better cut, immediate good instant streamer cut, good show, even medium brown oil stain after drying.
- 4950 - 4960 Sandstone: light brown to light tan, pale fluorescence and good blossom cut, slight decrease in cut from above, good show; Shale: brown, tan.
- 4960 - 4970 Shale: light gray, dark brown; trace of Sandstone: as above.
- 4970 - 4990 Sandstone: white, very fine grained, well sorted, argillaceous in part, no porosity, no show; Shale: light gray, as above.
- 4990 - 5000 Shale: light gray; and Sandstone: white, as above.
- 5000 - 5020 Shale: light gray, trace silty.
- 5020 - 5040 Shale: dark brown, dolomitic, waxy, oil shale, fair streamer cut; trace loose ostracods.
- 5040 - 5050 Shale: dark brown, light gray, abundant loose, tan calcareous ostracods; trace of Sandstone: light gray, very fine grained.
- 5050 - 5060 Sandstone: light gray, slightly tan cast in part, very fine grained, calcareous cement, no visible porosity, 5% with light tan oil stain, spotty dark brown oil specks, very pale fluorescence, poor show.
- 5060 - 5070 Shale: light gray brown, to light gray, dolomitic, platy.

- 5070 - 5090 Sandstone: light gray, very fine grained, well sorted, micaceous, platy, trace of spotty oil stain, poor show.
- 5090 - 5100 Sandstone: white, very fine grained, silty, no porosity, no show.
- 5100 - 5150 Shale: dark brown to black, pyritic, slow fair to good streamer cut, oil shale.
- 5150 - 5160 Shale: tan, silty, dolomitic; trace of Shale: dark brown, as above; trace of Sandstone: white, very fine grained, pyritic, no porosity.
- 5160 - 5170 Shale: medium to dark brown, oil shale; trace of Sandstone: as above.
- 5170 - 5210 Shale: medium brown, waxy, pyritic; Shale: dark brown, as above; trace of Sandstone.
- 5210 - 5220 Sandstone: light gray, very fine grained, argillaceous, platy, no porosity, no show; Shale: tan, medium and dark brown, waxy.
- 5220 - 5230 Siltstone: brown gray, trace very fine sandy, argillaceous, no porosity, no show.
- 5230 - 5240 Shale: medium to dark brown, as above; Sandstone: white, very fine to fine grained, sub-angular, few larger loose sub-round clear quartz grains, no porosity, no show.
- 5240 - 5250 Sandstone: gray, brown, very fine grained, argillaceous, no porosity, no show; Shale: medium brown, waxy, fair streamer cut, oil shale.
- 5250 - 5260 Shale: dark brown, medium brown, black, waxy, oil shale; few ostracod inclusions.
- 5260 - 5270 Shale: medium gray, gray brown to dark brown, pyritic, micaceous.
- 5270 - 5320 Shale: dark brown to trace black, waxy, oil shale.
- 5320 - 5340 Shale: medium brown, light gray, waxy; trace of Sandstone: tan, very fine grained, no visible porosity, tan oil stain with few specks of black residue, moderate amount loose fine quartz grains, few blobs of black oil, poor overall show.

#### **CARBONATE MARKER 5336' (+80')**

- 5340 - 5350 Shale: light gray, orange-brown.
- 5350 - 5360 Shale: light gray, moderate amount loose quartz grains, angular to sub-angular, no show; trace of Sandstone: white, very fine grained, no porosity, no show.
- 5360 - 5380 Shale: orange brown, waxy; trace of Limestone: white, amorphous, no porosity, no show; moderate amount loose quartz grains, as above.

5380 - 5390 Increase in Sandstone: mostly loose fine to medium angular to sub-angular, clear to milky quartz grains, trace of tan oil stain, few clusters of fine grains; Sandstone: with light tan oil stain in matrix and scattered dark brown to black oil specks.

**B-1 SANDSTONE 5394' (+22')**

5390 - 5400 Sandstone: tan to light brown, fine to medium grained, angular to sub-angular, no visible porosity, slight dolomitic cement, tan oil stain overall, with numerous specks of dark brown oil and moderate amount of black residue in sand clusters, mostly loose grains, light blue green fluorescence, fair streamer cut, fair show, moderate amount of globs of dark brown-black heavy oil.

5400 - 5420 Shale: black, dark brown, pyritic, oil shale; Shale: light gray to orange brown, waxy; trace of Sandstone: as above.

5420 - 5430 Sandstone: white, trace light gray, fine to trace medium grains, fair sorting, white calcareous cement, no porosity, no show; Shale: orange brown.

5430 - 5440 Shale: orange brown; with trace of Sandstone: as above.

5440 - 5450 Sandstone: white, fine to medium grains, poor to fair sorting, angular to sub-angular, much loose grains, some split, no visible porosity, no show; Shale: as above.

5450 - 5460 Shale: orange brown, dark brown; moderate amount loose grains, as above.

5460 - 5470 Shale: dark brown to black, oil shale; Shale: orange brown, as above.

5470 - 5480 Shale: light gray, trace silty, platy, dolomitic.

5480 - 5490 Shale: as above predominately, with moderate amount loose quartz grains, fine to medium, angular to sub-angular, no show.

5490 - 5500 Sandstone: white, very fine to fine grained, angular to sub-angular, fair sorting, white, slightly dolomitic cement in few clusters, mostly loose fine to medium, angular to sub-angular, quartz grains, some split, no show apparent; trace of Shale: orange brown, as above.

5500 - 5510 Sandstone: as above, no show.

5510 - 5520 Sandstone: as above; Siltstone: light gray, brown, no porosity, no show; trace of Shale: orange brown, as above.

5520 - 5540 Siltstone: as above; grading to Sandstone: very fine grained, siliceous, no porosity, no show; trace of Shale: dark brown to black.

5540 - 5550 Shale: dark brown to black; Siltstone: gray brown, argillaceous, platy.

5550 - 5560 Sandstone: white to light gray, fine to trace medium grains, siliceous cement, no visible porosity in clusters, mostly loose grains, no show apparent.



5560 - 5570 Shale: black, shiny like gilsonite, conchoidal fracture; Shale: light gray, silty; Shale: light gray; Sandstone: as above.

5570 - 5580 Siltstone: light gray, as above; Sandstone: white, very fine grained, no porosity, no show.

5580 - 5590 Sandstone: white, light gray, very fine grained, as above; trace salt and pepper, fair sorting, quartzitic, no porosity, no show; Shale: dark brown to black.

5590 - 5600 Siltstone: light gray, as above; trace of Sandstone: as above.

5600 - 5610 Shale: dark brown to black, trace silty.

5610 - 5630 Siltstone: light gray, argillaceous; grading to Sandstone: light gray, very fine grained; trace of Shale: dark brown, as above.

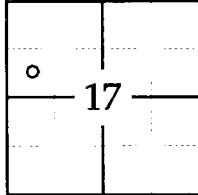
5630 - 5640 Sandstone: white, light gray, very fine grained, few gray to black grains, clusters are well cemented, no porosity, no show; Siltstone: as above; Shale: orange-brown.

5640 - 5650 Sandstone: white, salt and pepper, very fine to fine grained, no porosity, no show, moderate amount loose grains.

5650 - 5660 As above; with Siltstone: light gray, pyritic; Shale: orange brown, waxy.

**T.D. Driller 5650'**  
**T.D. Logger 5672'**

# DRILL TIME LOG



Balcron Oil Co.  
Monument Federal 12-17  
SW NW Sec 17-T9S-R17E  
Duchesne Co. Utah

ELEVATIONS : GL 5407.9 KB 5416

SPUD: 5-31-94 1:00 PM

OUT FROM UNDER SURF.CSG.: 6-02-94 3:30 AM

DATE DRLG,COMP.: 6-9-94 9:15 AM

DATE WELL COMPLETED: 6-10-94 1:00 PM

STATUS: To Complete as Oil Well

SURF.CSG.: 8 5/8" @ 380' RKB w/ 225 sx.

PRODUCTION CSG.: 5 1/2" @ 5660' w/285 sx.

CORES: None

DRILL STEM TESTS: None

CONTRACTOR: Union Drilling

RIG: #17

MAST: Pulls Doubles

POWER:

PUMPS: Gard- Den FXN 5 1/2" X 14"

DRILL PIPE: 16.60#/ft

COLLARS: 18 (558') 6" OD X 2 3/8" ID

MUD SYSTEM: Air Mist to 3847, KCLH<sub>2</sub>O to T.D.

TOTAL BITS: 3

TOTAL DAYS TO LOG POINT: 10 TO COMPL.: 11

T.D. DRILLER : 5650' LOGGER: 5672'

PENETRATION: 336' Below the Carbonate Marker

FRANK A. RADELLA, INC.

Oil & Gas Exploration & Consulting  
1610 Lewis Suite 202E  
Billings, Montana 59102

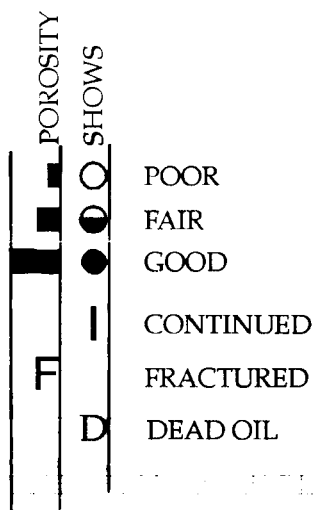
FRANK A. RADELLA  
Ofc. 406-245-5375

Res. 656-7215

# Legend

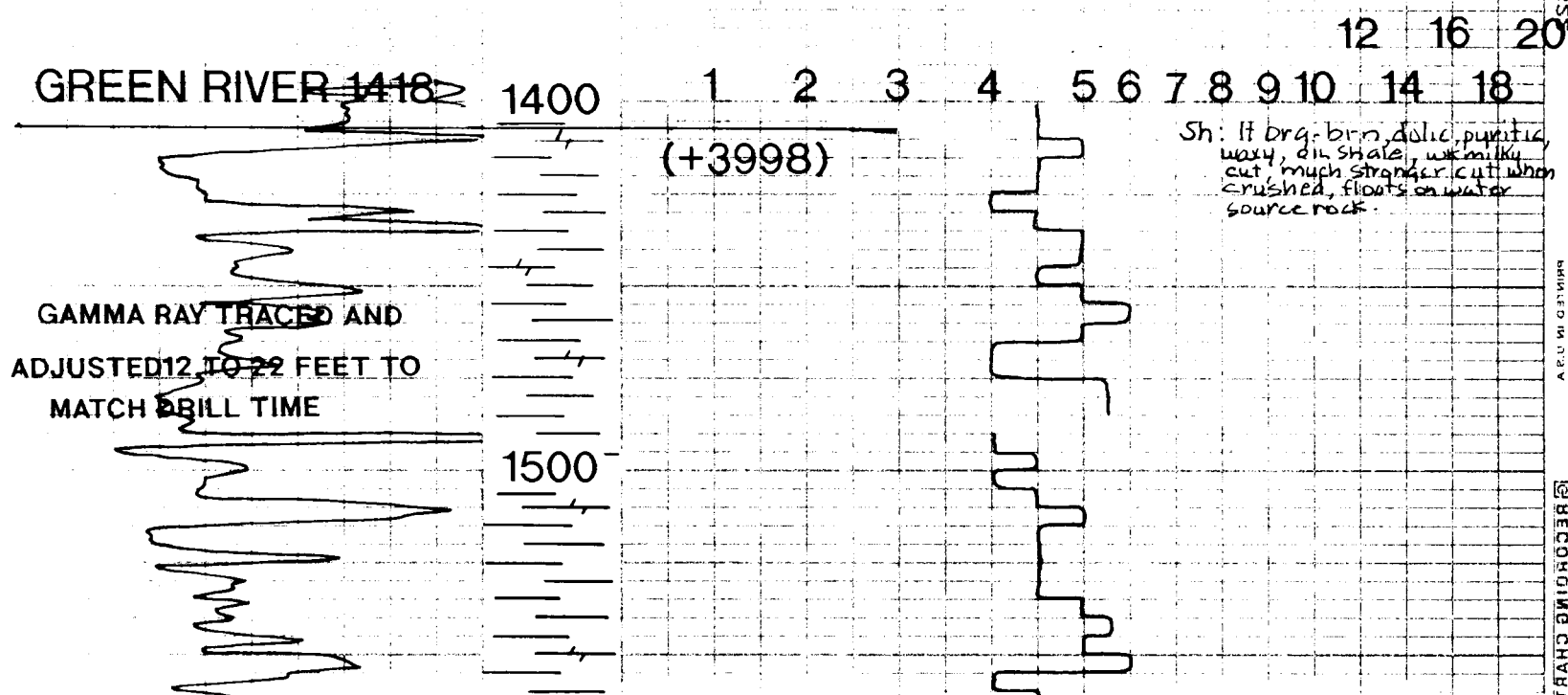
	SHALE		LIMESTONE		ARGILLACEOUS
	SILTSTONE		DOLOMITE		SILTY
	SANDSTONE		ANHYDRITE		SANDY
	CONGLOMERATE		GYP SUM		CALCAREOUS
	COAL		SALT		DOLOMITIC
	CHERT		OOLITIC		ANHYDRITIC
			PELLETAL		GYP SIFEROUS
					LOOSE SAND GRAINS
					GLAUCONITIC
					MICACEOUS

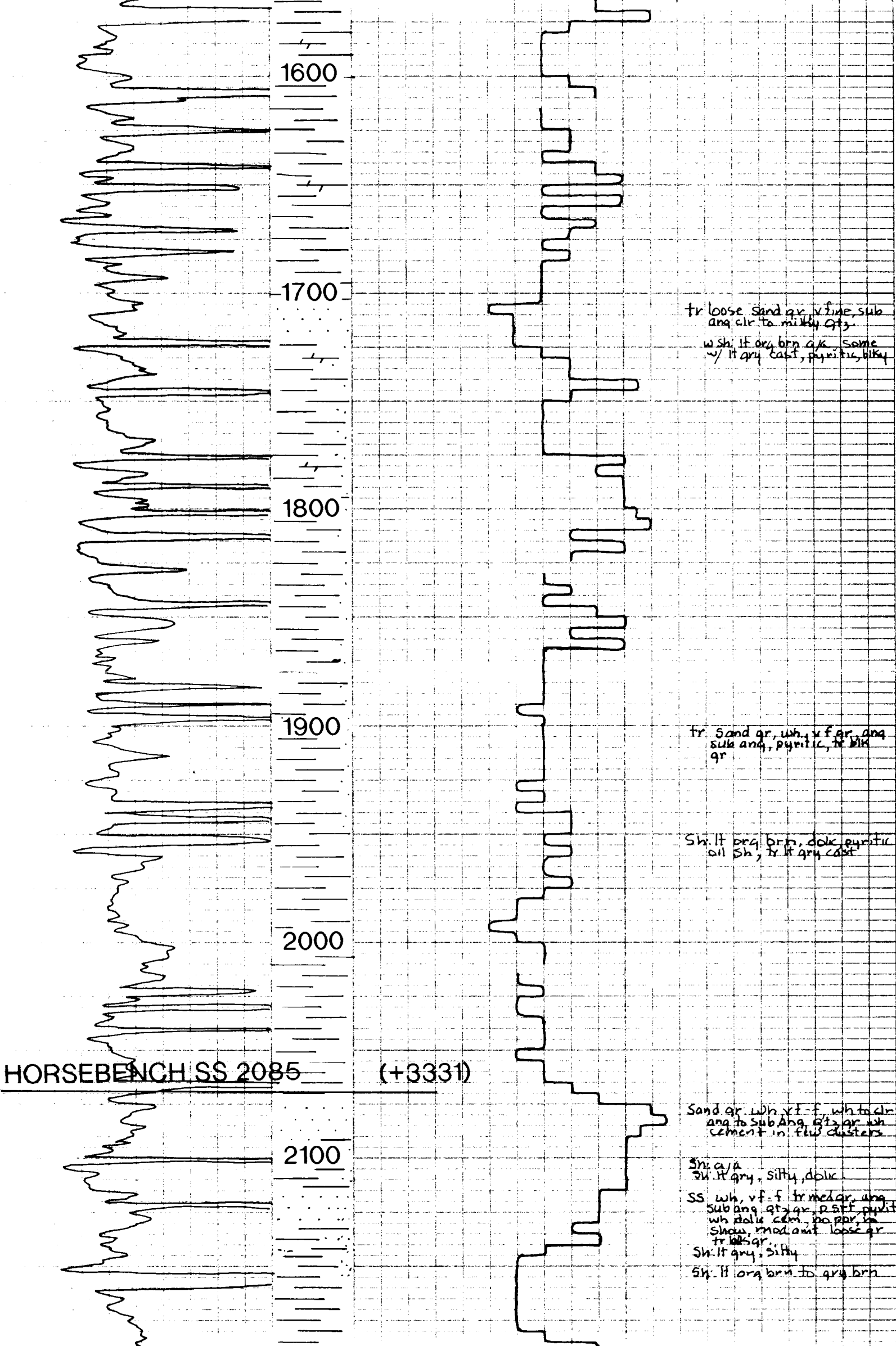
LOGGED BY GEOLOGIST: Frank A. Radella



LOG TOPS NOTED BELOW

DRILL TIME TOTAL MIN TO DRILL 5FT.  
VERT SCALE 2"=100'





tr loose sand gr. v. fine, sub  
ang. cl. to milky qtz.  
w. sh. lt org. brn. qtz. some  
w/ lt gry. cast, pyritic, blk

tr sand gr. wh. v. f. gr. ang  
sub ang. pyritic, tr blk  
gr

Sh. lt org. brn. dolc. pyritic  
oil sh. tr lt gry. cast

HORSEBENCH SS 2085 (+3331)

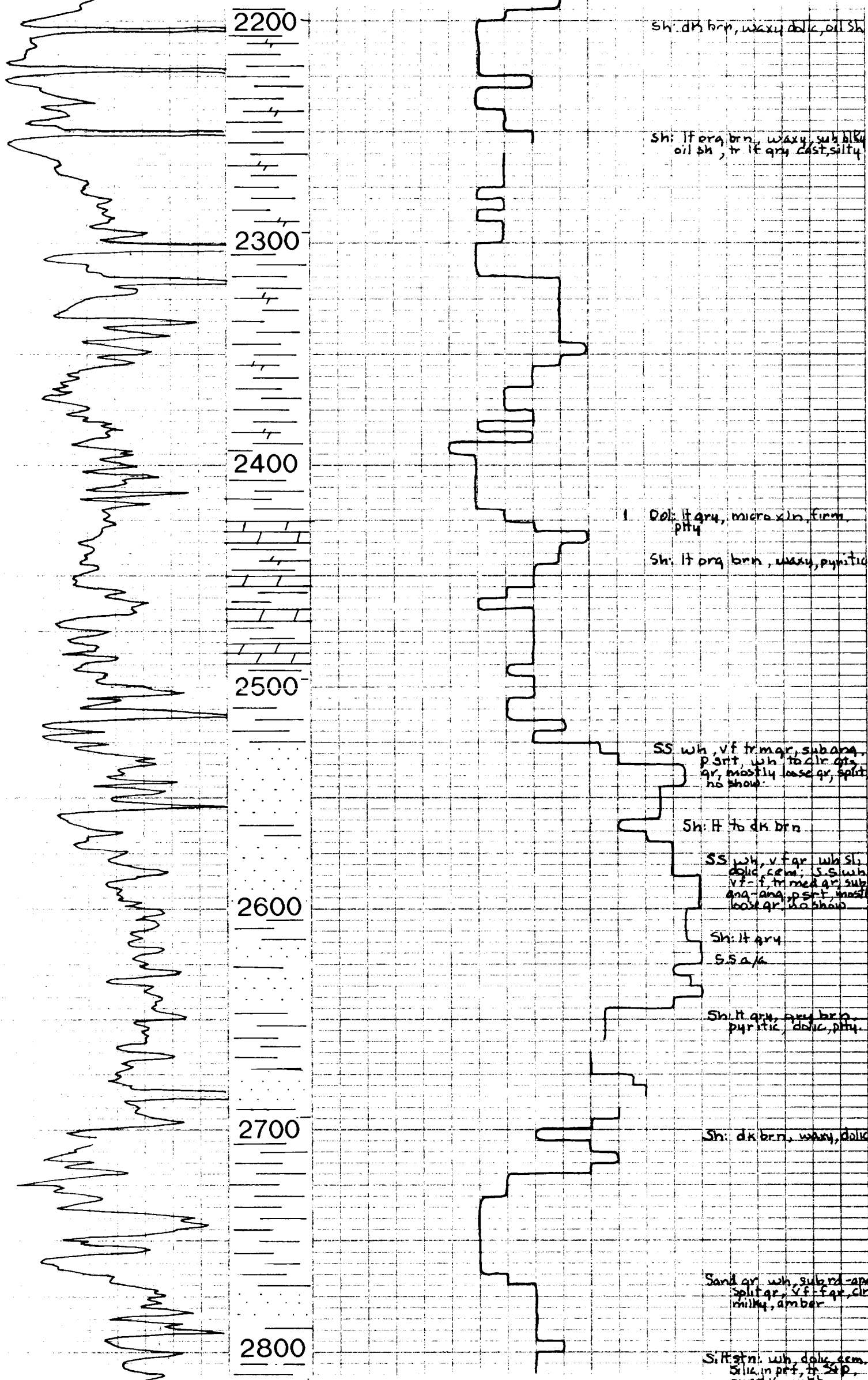
Sand gr. wh. v. f. wh. to cln  
ang to sub ang. qtz. gr. wh  
cement in few clusters

Sh. a/a  
sh. lt gry. silty dolc

SS wh. v. f. tr med. gr. ang  
sub ang. qtz. gr. p. silt. pyrit  
wh. dolc. ccm. no ppr. in  
sh. mod. amt. loose gr  
tr blk. gr.

Sh. lt gry. silty

Sh. lt org. brn. to gry. brn



w/ d n: qry, brn  
mod amt loose qr

Siltstn a/a abund  
loose qr  
Sh a/a w/ Sh tan

Sh. lt tan, sli dolc  
foats, d/s sh. w/  
Sh gry tan, v pyritic

SS wh, v f qr, grades to  
Siltstn wh, pyritic  
mod amt loose v f  
qy qr, some split

Is: wh, micritic, platy  
Sh: m. org brn dolc  
pyritic, to loose qr

Sh: lt-mary, pyritic  
tr silty, platy  
Is: lt med gr, tr silty  
pyritic, platy, crm

Sh: gry

Is: lt tan, silty, tr v f  
sandy micritic, tr  
v f frag, no por

Is: tan, micritic, sandy  
platy  
SS lt gry, v f qr, silc  
no por  
mod amt loose at gr  
v f - f, sub ang, ang

SS wh, lt gry, v f - fqr,  
sub ang, ang, split  
qr, micaceous, mostly  
loose gr, few tight clust  
no show  
Sh: lt gry, silc

2900

3000

3100

3200

3300

3400

SS, a/a, tr s+p, psst,  
tr oil stn, poor show

Sh: lt gr, sandy, pyritic

Sh: lt arg brn, tr dk  
brn, waxy, tr pyrit

tr s.s. wh, v. fg, well lam  
sh: a/a

int bed sh + s.s. a/a

ls: wh, crm, tan,  
micro xln, sh: lt brn

SS wh, lt gr, w. sst,  
few, light clust,  
pyritic, no vis par,  
tr: lt tan, w/lt wk sh  
milky clst, poor sh  
tr: ls: wh, a/a  
sh: lt gr, sandy

SS lt arg, v. arg, argill.  
silty  
sh: mgy, sandy, silty

sh: lt arg, v. arg,  
argill, tr: ls  
wh

ls: tan, oolite  
w. sem. the ls  
slowly str  
cut  
sh: lt arg brn  
loose oolite

2nd GARDEN GULCH 3700 (+1716)

Y-2 SS 3969

(+1447)

3500

3600

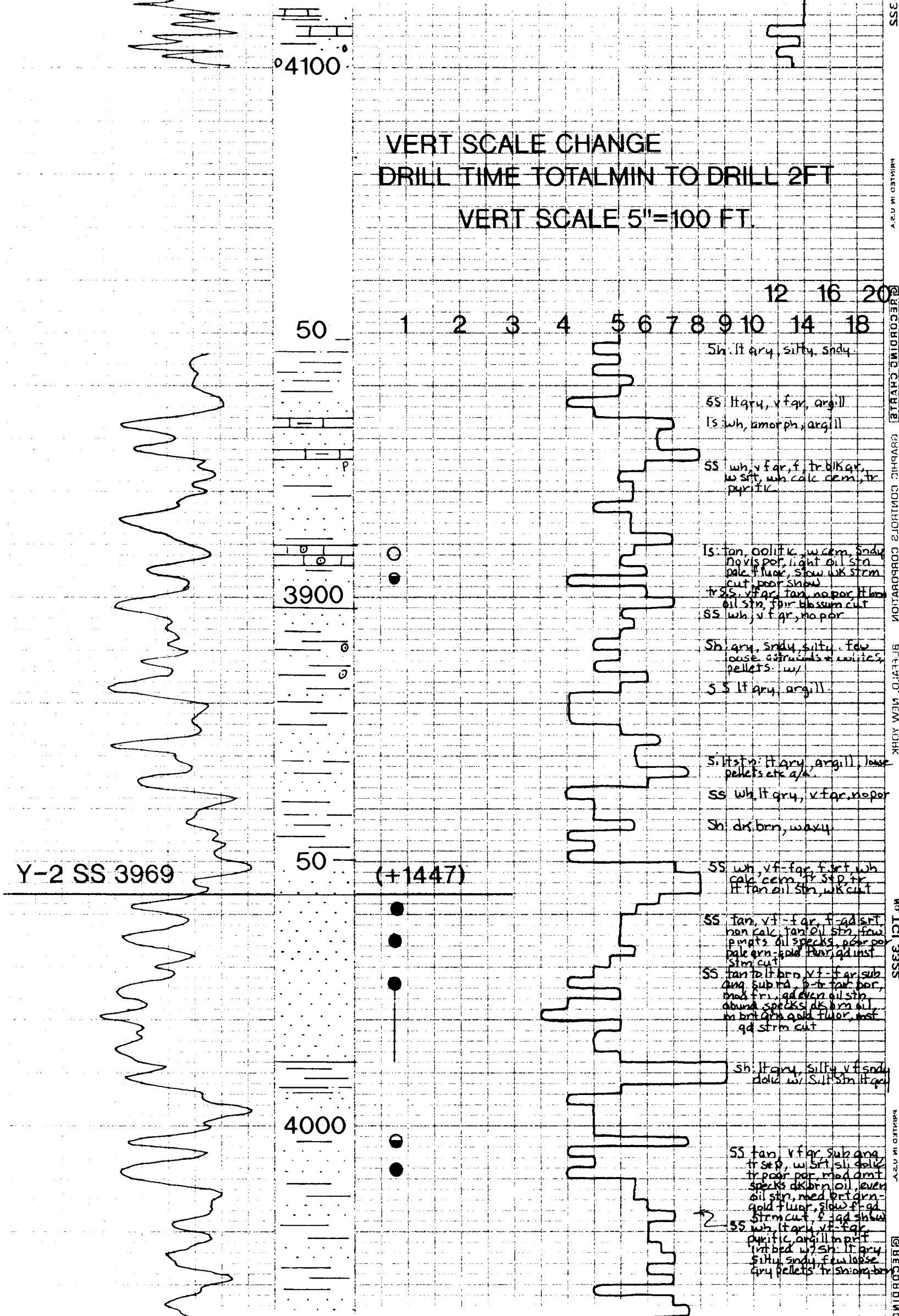
3700

3800

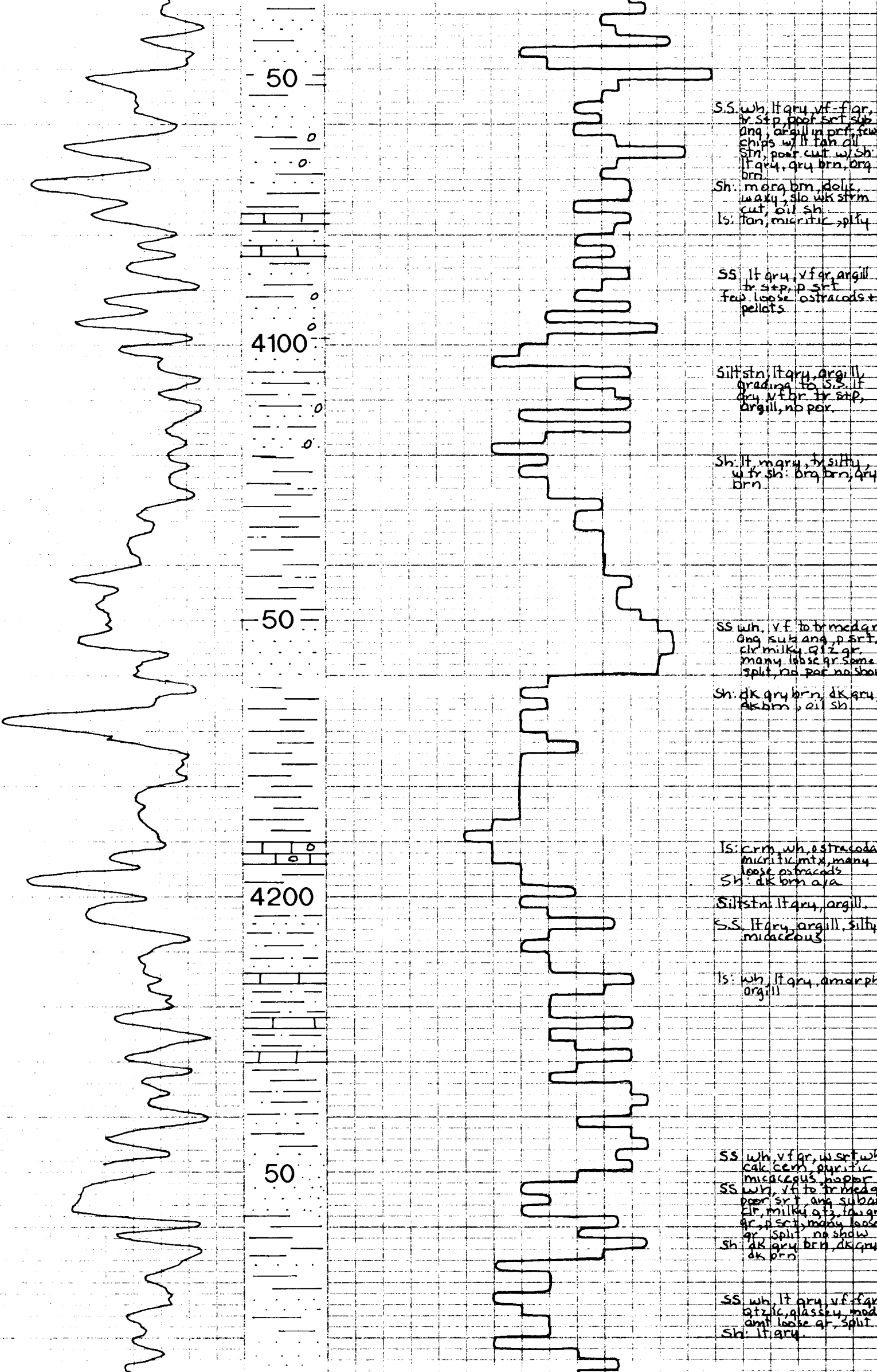
3900

4000

VERT SCALE CHANGE  
DRILL TIME TOTAL MIN TO DRILL 2 FT  
VERT SCALE 5"=100 FT.







YELLOW MKR 4318

4300

(+1098)

ls. crm, ostracods

SS wh, vf-f, oolitic  
gr. srt, few light  
clust, mostly loose  
gr  
sh: lt brn, waxy, calc

SS wh, vf-f, gr, calc  
opaque and subang  
mostly loose gr, new  
chip w/ blk oil stn  
few loose ostracods

abund loose ostracods  
whole + broken

Sh: org brn, waxy  
fr silty, calc, blk

Siltstn: lt gr, mod  
amt loose vf-f gr  
+ ostracod frags  
w/ sh: brn, a/a

SS lt gr, mod amt  
loose gr, no show

sh: brn, a/a  
Siltstn: lt gr, argill  
SS lt gr, wh, vf gr

w/ sh: lt brn

Sh: dk org brn, waxy  
oil sh w/ sh: lt gr, fr  
fr silty

SS wh, vf gr, wh calc  
cem, argill in prt,

Sh: org brn tr grn

SS wh, a/a  
Sh: lt gr, silty, vf  
sandy

DOUGLAS CRK 4486

4500

(+930)

Sh: m-dk brn, fr silty  
pity

Sh: lt gr, pity

SS wh, vf gr, sub ang  
qd srt, wh calc cem

Sh: lt gr, lt-m brn, silty  
SS: wh, vf-m gr, srt  
p srt, wh calc cem

Sh: m gr, gr, brn,  
fr silty, waxy, py

Sh: a/a mod amt loose  
gr, rd to oblong  
pellets

Sh: lt gr

SS wh, lt gr, vf gr  
argill in prt

NO. 101 3355

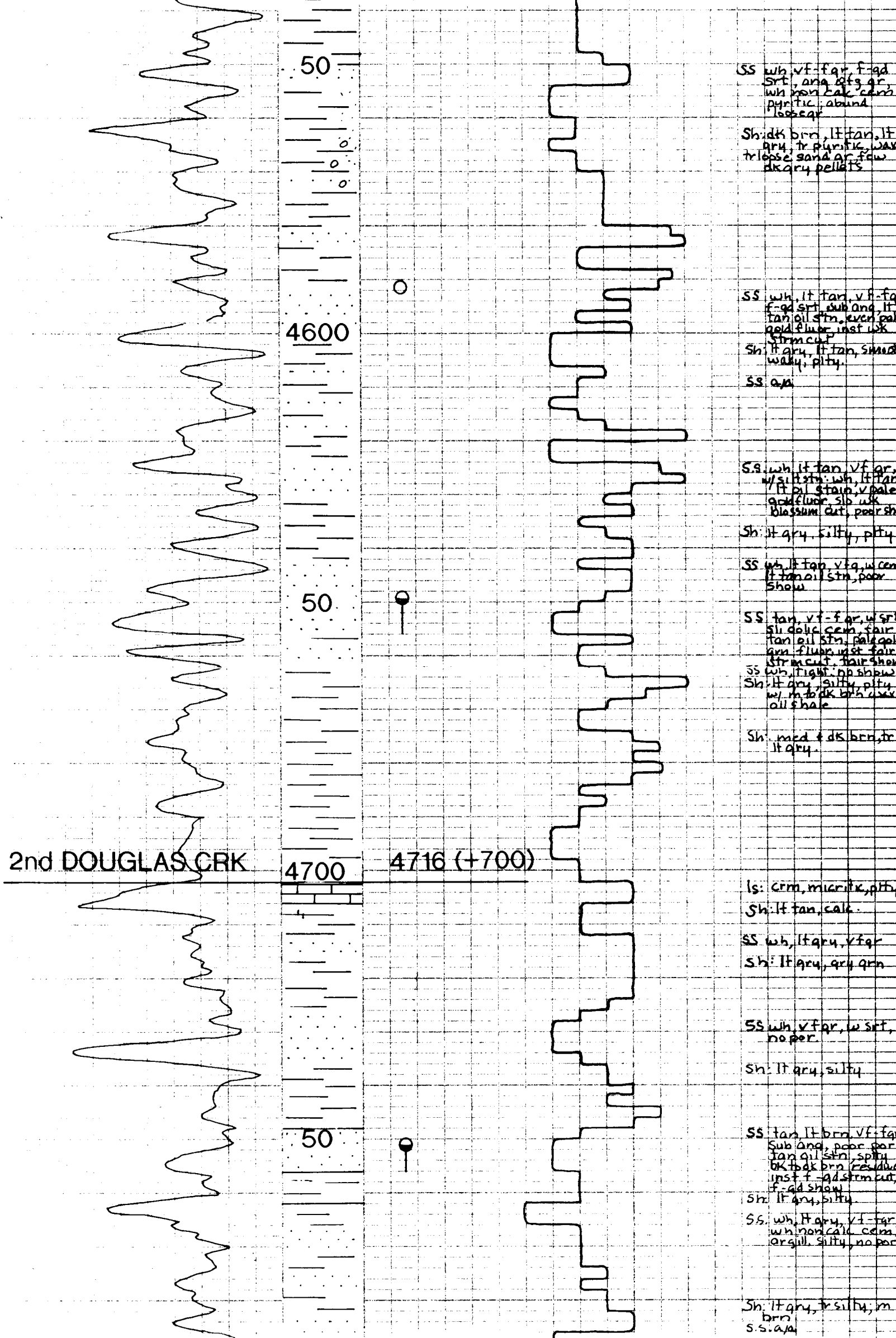
PRINTED IN U.S.A.

RECORDING CHARTS

GRAPHIC CONTROLS CORPORATION

BULETIN NEW YORK

NO. 101 3355



SS wh, vt-fgr, f-gd  
Srt, and qtz gr  
wh non calc cem  
pyritic, abund  
loosegr

Sh: dk brn, lt tan, lt  
gr, tr pyritic, wax  
tr loose sand or few  
dk gry pellets

SS wh, lt tan, vt-fgr  
f-gd srt, sub ang, lt  
tan oil stn, even pale  
gold fluv, inst wk  
strm cut

Sh: lt gry, lt tan, sm  
waxy, pty

SS a.p.

SS wh, lt tan, vt-fgr,  
w/lt stn: wh, lt tan,  
lt oil stain, v pale  
gold fluv, slb wk  
blossum cut, poor sh

Sh: lt gry, silty, pty

SS wh, lt tan, vt-fgr, w cem  
lt tan oil stn, poor  
show

SS tan, vt-fgr, w srt  
slb calc cem, fair  
tan oil stn, pale gold  
grn fluv, inst fair  
strm cut, fair show

SS wh, lt tan, no show  
Sh: lt gry, silty, pty  
w/lt dk brn clay  
oil shale

Sh: med & dk brn, tr  
lt gry

ls: crm, micritic, pty  
Sh: lt tan, calc

SS wh, lt gry, vt-fgr  
Sh: lt gry, gry grn

SS wh, vt-fgr, w srt,  
no por

Sh: lt gry, silty

SS tan, lt brn, vt-fgr  
sub ang, poor por,  
tan oil stn, silty  
bk to dk brn residue  
inst f-gd strm cut,  
f-gd show

Sh: lt gry, silty

SS wh, lt gry, vt-fgr,  
w non calc cem,  
orgill, silty, no por

Sh: lt gry, tr silty, m  
brn  
S.S. a.p.

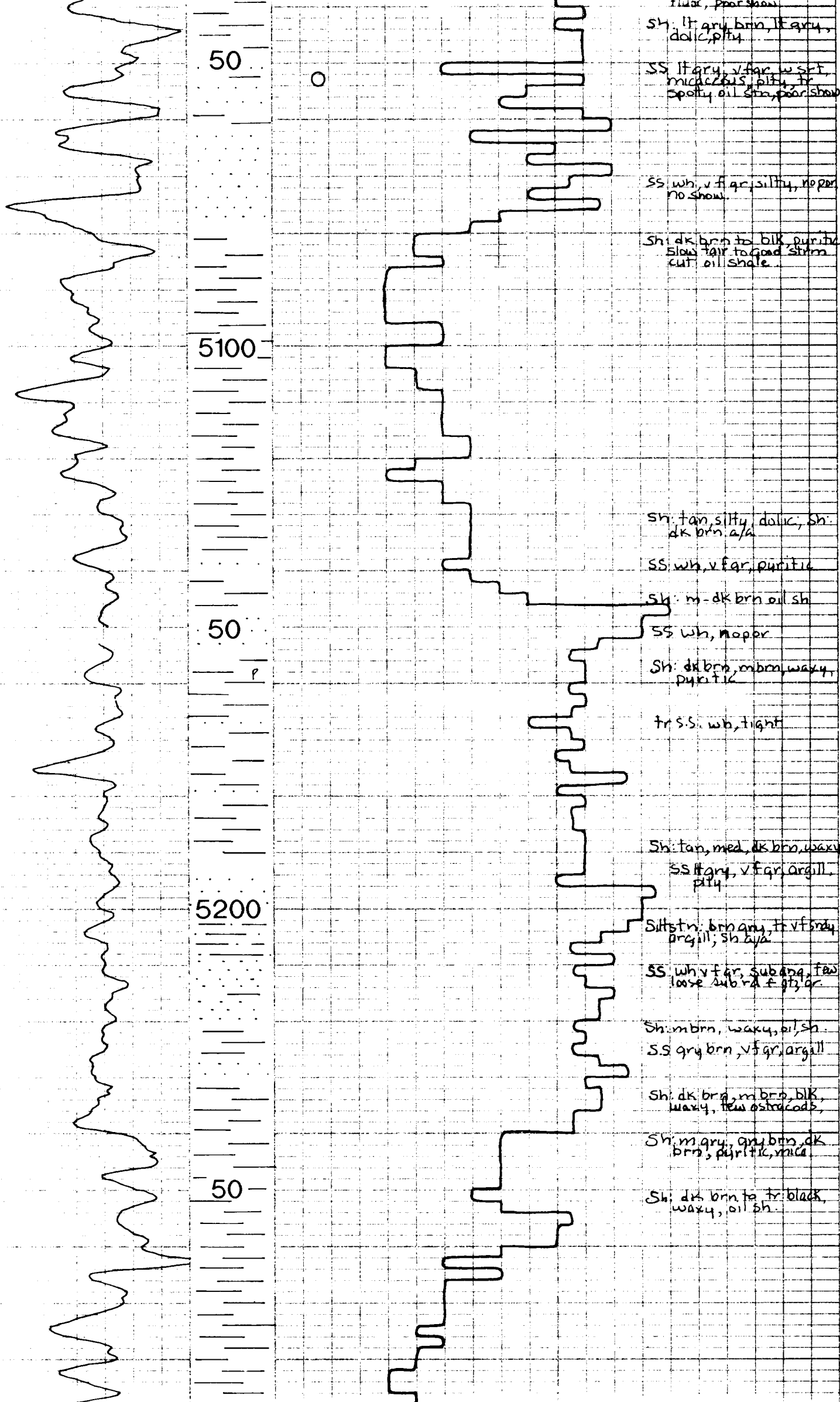
GREEN MKR 4850

(+566)

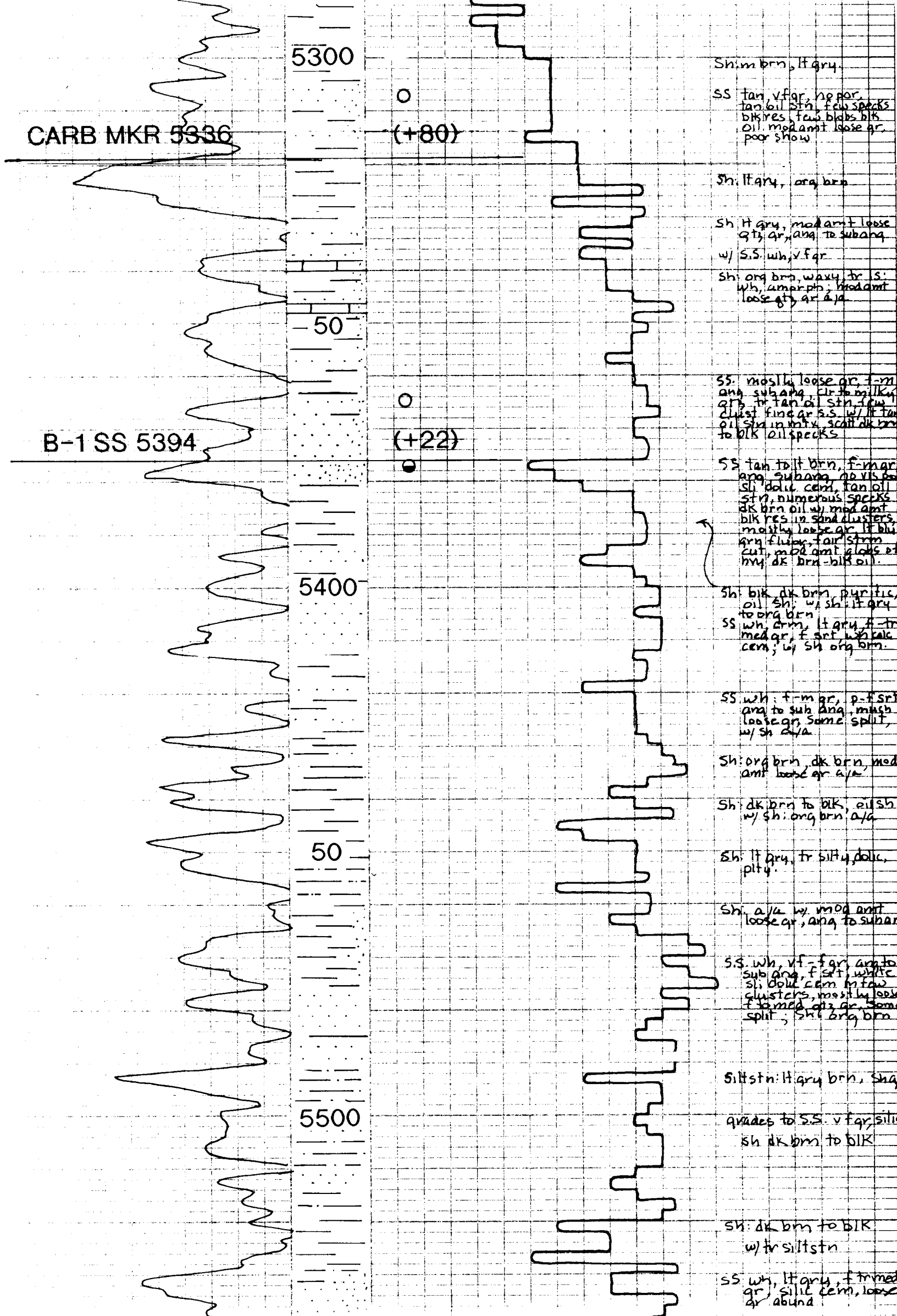
G-3 SS 4932

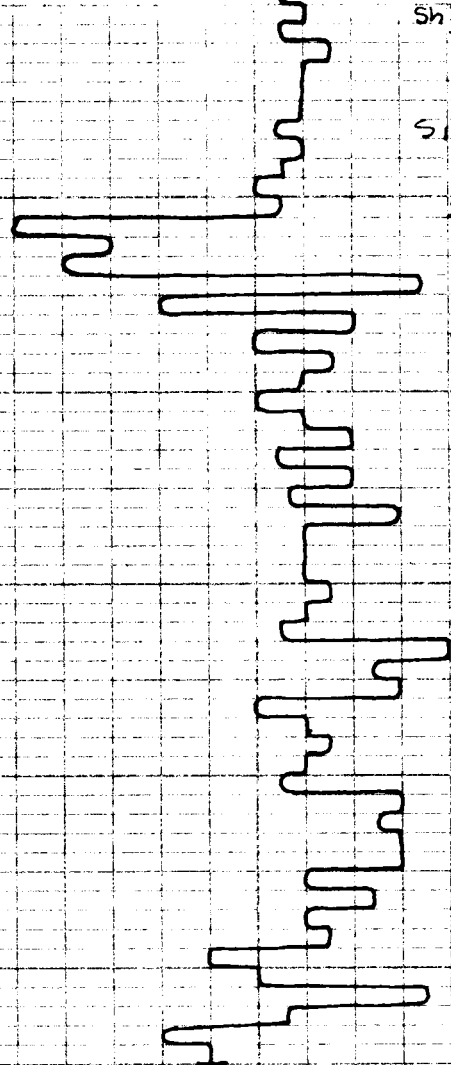
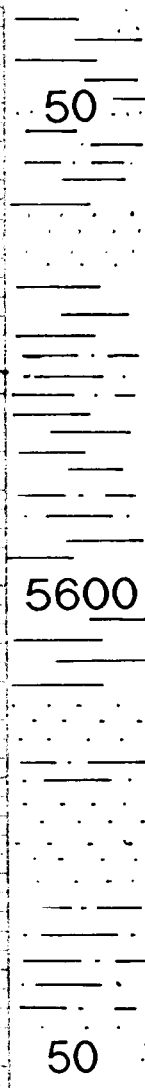
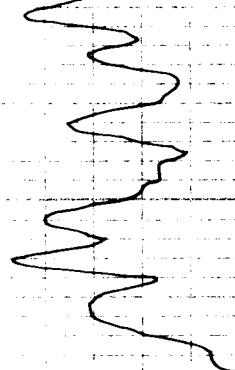
(+484)

Sh. dk brn, waxy oil  
Sh.  
Sh. dk brn, lt brn, tan  
ls: crn; micritic  
Sh. lt brn, silty  
SS lt gr, v fgr, silty,  
argill intbd w/  
Sh: lt gr  
Sh: lt gr, gr, brn  
SS wh, v fgr, w sct,  
silt, pty  
Sh: m brn, waxy  
lt gr  
Siltstn: wh, tr sandy,  
pty w/ Sh: lt gr  
SS lt brn to tan, v fgr,  
ung sub ang, poor por  
lt brn silstn, numerous  
specks dk brn oil, pale  
fluor, f-gd inst strn cut  
SS a/a w/ ind in oil  
specks, instant gd strn  
cut  
SS a/a, lt brn to tan, gd  
basum cut, good show  
but dec in cut from above  
Sh: lt gr, tr silty, v sandy  
sli dolie; Sh: brn, tan a/a  
SS wh, v fgr, w sct, argill  
in prt.  
Sh: lt gr, intbd  
Sh: lt gr, tr, silty  
Sh: dk brn, dolie, waxy,  
fair strn cut, oil shale  
Sh: dk brn, lt gr, abnd  
ostracods; S.S. lt gr  
S.S. lt gr, silt tan cast  
v fgr, calc com, 50% lt  
tan oil stn, speckled  
top oil specks, pale



sh. lt. gry. brn, lt. gry.,  
 dolc, pty  
 ss. lt. gry, v. far, w. set,  
 micaceous, pty, fr  
 spotty oil str, poor show  
 ss. wh, v. far, silty, no por  
 no show  
 sh. dk. brn to blk, puritic  
 slow fair to good str  
 cut oil shale  
 sh. tan, silty, dolc, sh.  
 dk brn. a/a  
 ss. wh, v. far, puritic  
 sh. m-dk brn oil sh  
 ss. wh, no por  
 sh. dk brn, mbrn, waxy,  
 pyritic  
 fr ss. wh, tight  
 sh. tan, med, dk brn, waxy  
 ss. lt. gry, v. far, argill,  
 pty  
 siltstn. brn arg, fr v. fine  
 argill; sh. a/a  
 ss. wh, v. far, subang, few  
 loose sub. r. & qtz, or  
 sh. mbrn, waxy, bl, sh  
 ss. gry brn, v. far, argill  
 sh. dk brn, mbrn, blk,  
 waxy, few ostracods  
 sh. m. gry, gry brn, dk  
 brn, pyritic, mica  
 sh. dk brn to tr. black,  
 waxy, oil sh.





Sh. blk shiny chondritic  
fract, gilsonite?  
sh. it gray, silty.

Siltstn. lt gray, ss wh

SS wh, lt gray, vfg  
tr. ssp, f. sst, atz  
itic

sh. dk brn to blk

Siltstn. a/a, tr ss  
a/a

Sh. dk brn to blk, tr  
silty

Siltstn. lt gray, angill,  
grades to ss, it  
gray, vfg  
tr. sh. dk brn a/a

SS wh, lt gray, vfg  
tr. gray to blk, ar,  
clastic well dem.  
Siltstn. a/a w/  
sh. org brn w/  
SS wh ssp, vfg  
mda am, loose gr.

SS wh ssp  
w siltstn. lt gray  
pyritic, sh. org  
brn waxy

TD DRL 5650 TD LOGGER 5672

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. UUU-72106
2. Name of Operator Equitable Resources Energy Company, Balcon Oil Division	6. If Indian, Allottee or Tribe Name n/a
3. Address and Telephone No. P.O. Box 21017, Billings, MT. 59104 (406) 259-7860	7. If Unit or CA, Agreement Designation n/a
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SW NW Section 17, T9S, R17E 1980' FNL, 660' FWL	8. Well Name and No. Balcon Monument Federal #12-17
	9. API Well No. 43-013-31431
	10. Field and Pool, or Exploratory Area Monument Butte/Green River
	11. County or Parish, State Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Report of First Production</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

First production on this well was on 7-5-94 at 4 p.m.

14. I hereby certify that the foregoing is true and correct

Signed Molly Conrad

Title Operations Secretary

Date 7-7-94

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side



DAILY OPERATING REPORTBALCRON MONUMENT FEDERAL #12-17

Location: SW NW Section 17, T9S, R17E  
 Duchesne County, Utah

---TIGHT HOLE---

1980' FNL, 660' FWL

PTD: 6,000' Formation: Green River  
 Monument Butte Field

Elevations: 5407.9' GL, 5417.9' KB

Contractor: Union Drilling Rig #17

Operator: Balcron/EREC

Spud: 5-31-94 @ 1 p.m.

Casing: 8-5/8", 24#, J-55 @ 380' KB

5-1/2", 15.5#, K-55 @ 5660.17' KB

Tubing: 2-7/8", 6.5#, EUE, J-55 @ 5006.80' KB

5-21/24-94 Build location

5-27-94 Install pit liner.

DC: \$11,970

CC: \$11,970

6-1-94 TD: 360' (360') Day 1

Formation: Uintah

MW air & mist

Present Operation: Drilling

MIRU. Drill & set conductor pipe. Install airhead, drill 12-1/4" hole. Spud @ 1 p.m. 5-31-94.

DC: \$5,881

CC: \$17,851

6-2-94 TD: 501' (106') Day 2

Formation: Uintah

MW 8.3 VIS 26

Present Operation: Drilling

Drill 12-1/4" hole, blow hole, TOH & ND air head & conductor. Run 9 jts 8-5/8" csg as follows:

Guide Shoe	.60'
------------	------

1 jt 8-5/8", 24#, Shoe jt	44.30'
---------------------------	--------

Insert Float	-----
--------------	-------

8 jts 8-5/8", 24#, J-55	<u>325.10'</u>
-------------------------	----------------

	370.00'
--	---------

Landing jt	<u>10.00'</u>
------------	---------------

Csg landed @	380.00'KB (3 centralizers)
--------------	----------------------------

Cmt'd by Western w/225 sxs Class "G" w/2% CCL & 1/4#/sx Celoflakes.

2 bbls cmt back to pit. Plug down @ 11 a.m. WOC, NU, WO tester, test BOP & manifold to 2000# - OK. Test csg to 1500# - OK. TIH, drill cmt, & drill ahead.

DC: \$13,126

CC: \$30,977

DAILY OPERATING REPORTBALCRON MONUMENT FEDERAL #12-17

Location: SW NW Section 17, T9S, R17E  
 Duchesne County, Utah

---TIGHT HOLE---

6-4-94 TD: 2680' (869') Day 4  
 Formation: Green River  
 MW 8.3 VIS 26  
 Present Operation: Drilling  
 Drill, survey, trip for collar, blow hole, drill. Pick up 4 drill collars.  
 DC: \$12,098 CC: \$60,348

6-5-94 TD: 3717' (1037') Day 5  
 Formation: Green River  
 MW 8.4 VIS 26  
 Present Operation: Drilling  
 Drill, survey, clean on rig.  
 DC: \$14,230 CC: \$74,578

6-6-94 TD: 4150' (433') Day 6  
 Formation: Yellow Zone  
 MW 8.4 VIS 26 pH 10.2  
 Present Operation: Drilling  
 Drill, circulate hole with fluid, trip for bit. Drill, survey.  
 DC: \$6,731 CC: \$81,309

6-7-94 TD: 4,530' (380') Day 7  
 Formation: Yellow Zone  
 MW 8.4 VIS 26 pH 10.2  
 Present Operation: Drilling  
 Drill, survey, clean on rig, Trip for hole in pipe. 55 stands down, trip in go to drilling, lose pump press. Hole in drill pipe 13 stands down. Trip in, drill.  
 DC: \$6,563 CC: \$87,872

6-8-94 TD: 5,125' (595') Day 8  
 Formation: Green Zone  
 MW 8.4 VIS 26 pH 9.8  
 Present Operation: Drilling  
 Drill, survey, clean on rig.  
 DC: \$8,651 CC: \$96,523

6-9-94 TD: 5,595' (470') Day 9  
 Formation: Blue Zone  
 MW 8.4 VIS 26 pH 9.8  
 Present Operation: Drilling  
 Drill, work on pit pump & drill ahead.  
 DC: \$7,380 CC: \$103,903

DAILY OPERATING REPORTBALCRON MONUMENT FEDERAL #12-17

Location: SW NW Section 17, T9S, R17E  
 Duchesne County, Utah

---TIGHT HOLE---

6-10-94 TD: 5,650' (77') Day 10  
 Formation: Green River  
 MW 8.4 VIS 26 pH 9.8  
 Present Operation: Lay down drill pipe  
 Drill curcluate for logs. Trip out, log well by Holliburton, down  
 2-1/2 hours. Repair short in wire line. Finish logging. Trip in,  
 lay down drill pipe.  
 DC: \$16,237 CC: \$120,140

6-10-94 TD: 5,650' (0') Day 11  
 Formation: Green River  
 Present Operation: RDMO.  
 LD drill pipe & collars. Change pipe rams & test BOP to 2000# -  
 OK. Run 5-1/2" csg & cmt by Dowell as follows:  
 Guide Shoe .60'  
 1 jt 5-1/2", 15.5# shoe jt 42.92'  
 Float collar 1.00'  
 129 jts 5-1/2", 15.5#, K-55 5606.65'  
 5651.17'  
 Landing jt 9.00'  
 5660.17'  
 PBTD @ 5615.65' KB.  
 Cmt by Dowell w/115 Hilift lead cmt & tail w/170 sxs 10-0 RFL.  
 Plug down @ 2 p.m. Set slips, ND, clean mud tank. RDMO. Release  
 rig @ 6 p.m. 6-10-94.  
 DC: \$47,070 CC: \$167,210

6-13-94 Completion  
 Set rig anchor. Dress up location, move in tanks. MIRU Cannon well  
 service rig #2. NU 5M well head, NU BOP. TIH w/182 jts, 2-7/8"  
 EUE J-55 tbq, bit and scrapper. Tag PBTD at 5,615' KB. Circulate  
 hold clean w/125 bbls 2% KCL water. TOH w/tbg, scrapper and bit.  
 RU cutter wire line to run CBL from PBTD. Cement top at 2,900' KB.  
 RU cutter to perf, 4,939'-47' and 4,950'-54', 46 PF. RD cutter.  
 SWIFN.  
 DC: \$26,774 CC: \$193,984

DAILY OPERATING REPORTBALCRON MONUMENT FEDERAL #12-17

Location: SW NW Section 17, T9S, R17E

Duchesne County, Utah

---TIGHT HOLE---

- 6-14-94 Completion  
 CP - 0 psi. TIH w/RBP, retrieving tool, 2-7/8" x 4' sub, SN & 162 jts 2-7/8" tbg, set BP @ 5000' KB. EOT @ 4910' KB. RU Western to do KCL breakdown on 4439'-47' & 4950'-54' w/2,016 gallons 2% KCL. ATP 2500 psi, max 3050 psi. ATR 5.6 BPM, 9.1 BPM. ISIP 950. TOOH w/tbg, SN, sub & RT. RU Western to frac 4939'-47' & 4950'-54' w/74,400# 16/30 mesh sand w/25,000 gallons 2% KCL gelled wtr, flushed well w/4,914 gallons 2% KCL wtr. ATP 1800 psi, max 2110 psi. ATR 30 BPM, max 30.9 BPM. ISIP 1620 psi, 5 min 1510 psi, 10 min 1450 psi, 15 min 1430 psi. Start frac, shut down, gel valve problem, restart frac, shut down, gel hose plugged, restart frac. SWIFN.  
 DC; \$33,686 CC: \$227,670
- 6-15-94 Completion  
 CP - 780 psi. Flow back 50 BW, 1000# sand. TIH w/retrieving tool, 2-7/8" x 4' sub, 5-1/2" HD packer, SN & 158 jts tbg. Tag sand @ 4903' KB. Circ down to BP @ 5000' KB, set packer @ 4910' KB. Made 16 swab runs, recovered 146 BW, trace oil. Fluid level stable @ 2300' last 3 runs. Good gas. Release packer, tag sand @ 4985' KB, circ down to BP @ 5000' KB, release BP. Try to reset BP @ 4062' KB, would not set. TOOH w/BP, packer & tbg. RU Cutter's Wireline to perf 3985'-88', 3990'-4000' (4 SPF). RD Cutter's Wireline. SWIFN.  
 DC: \$5,744 CC: \$233,414
- 6-16-94 Completion  
 TIH w/RBP, retrieving head, 2-7/8" x 4' sub, 5-1/2" HD packer, SN & 132 jts 2-7/8" tbg. Set BP @ 4088', EOT @ 3963'. RU Western to do KCL break down on 3985'-88', 3990'-4000' KB w/2,982 gallons 2% KCL wtr w/100 ball sealers. ATP 1990 psi, max 3490 psi. ATR 6 BPM, max 6 BPM. ISIP 1100 psi, 5 min 910 psi, 10 min 840 psi, 15 min 800 psi. TOOH w/tbg, packer & RH. RU Western to frac w/57400# 16/30 mesh sand w/19,740 gallons 2% KCL gelled wtr. ATP 2000 psi, max 2170 psi. ATR 29.5 BPM, max 31 BPM. ISIP 1800 psi, 5 min 1550 psi, 10 min 1420 psi, 15 min 1410 psi. RD Western & SDFN.  
 DC: \$30,131 CC: \$263,545
- 6-17-94 Completion  
 CP - 675#. TIH w/retrieving tool, 2-7/8" x 4' sub, 5-1/2" HD packer, SN & 128 jts tbg. Tag sand @ 3950' KB, circ down to BP @ 4088' KB, set packer @ 3956' KB. Made 30 swab runs, recovered 197 BW, trace oil. Last 3 runs fluid level stable @ 2100', still getting sand back. SWIFN.  
 DC: \$1,929 CC: \$265,474

DAILY OPERATING REPORTBALCRON MONUMENT FEDERAL #12-17

Location: SW NW Section 17, T9S, R17E  
 Duchesne County, Utah

---TIGHT HOLE---

6-18-94 Completion

TP 15 psi. Fluid level 400' from surface. Made 12 swab runs, recovered 70 BW, 2 BO, good gas, no sand last 4 runs. Fluid level stable @ 2100' last 3 runs. Release packer, tag sand @ 4080' KB, circ dow to BP @ 4088' KB, release BP, TOOH w/tbg & tools. TIH w/tbg production string as follows:

	<u>Length</u>	<u>Depth KB</u>
1 jt 2-7/8" EUE J-55 8rd 6.5#	27.43'	5006.80'
1 Perf Sub 2-7/8" x 3'	3.20'	4979.37'
1 Seat Nipple 2-7/8" x 1'	1.10'	4976.17'
33 jts 2-7/8" EUE J-55 8RD 6.5#	1016.44'	4975.07'
1 Tbg Anchor 2-1/2" x 5-1/2"	2.35'	3958.63'
128 jts 2-7/8" EUE J-55 8RD 6.5#	3946.28'	3956.28'
Union Drilling KB	10.00'	

ND BOP, ND 5M wellhead, ND 3M wellhead, set tbg anchor w/21" tension. TIH w/rod string as follows:

1 - BHP 2-1/2" x 1-1/2" x 16' RWAC w/PA plunger, # 1059 (Trico)

1 - 3/4" x 4' stablizer sub

198 - 3/4" x 25' Plain Rods D-61 (Trico)

1 - 3/4" x 6' Pony

1 - 1-1/4" x 22' Polish Rod SM

Pressure test BHP & tbg to 1000 psi - OK. Clamp rods off. RDMO.

DC: \$9,247 CC: \$274,721

7-6-94 Started pumping @ 4 p.m. on 7-5-94.

UTAH DIVISION OF OIL, GAS AND MINING  
EQUIPMENT INVENTORY

Operator: EQUITABLE RESOURCES Lease: State:      Federal: Y Indian:       
Fee:     

Well Name: BALCRON MON FED #12-17 API Number: 43-037-31431

Section: 17 Township: 09S Range: 17E County: DUCHESNE Field: MONUMENT BUTTE

Well Status: POW Well Type: Oil: Y Gas:     

PRODUCTION LEASE EQUIPMENT: Y CENTRAL BATTERY:     

Y Wellhead N Boiler(s) N Compressor N Separator(s)  
N Dehydrator(s) N Shed(s) N Line Heater(s) N Heated  
Separator  
N VRU Y Heater Treater(s)

PUMPS:

     Triplex      Chemical (1) Centrifugal

LIFT METHOD:

Y Pumpjack      Hydraulic      Submersible      Flowing

GAS EQUIPMENT:

     Gas Meters      Purchase Meter Y Sales Meter

TANKS: NUMBER

SIZE

<u>Y</u>	Oil Storage Tank(s)	<u>2-400 OIL W/BURNERS</u>	<u>    </u> BBLS
<u>Y</u>	Water Tank(s)	<u>1-130 OPEN TOP SUBSURFACE PITTANK</u>	<u>    </u>
<u>N</u>	Power Water Tank	<u>    </u>	<u>    </u> BBLS
<u>N</u>	Condensate Tank(s)	<u>    </u>	<u>    </u> BBLS
<u>N</u>	Propane Tank	<u>    </u>	<u>    </u>

REMARKS: METERED OFF LOCATION (UNITIZED ONAH). GLYCOL TRACE PUMP. UNIT  
IS RUNNING OFF FIELD GAS ON VISIT WITH CASING VALVE OPEN (WELL WAS JUST  
BROUGHT ON).

Location central battery: Qtr/Qtr:      Section:      Township:       
Range:     

Inspector: DENNIS INGRAM Date: 7/13/94

EQUITABLE RESOURCES ENERGY

BALCON M&W FED #12-17

43-013-31431

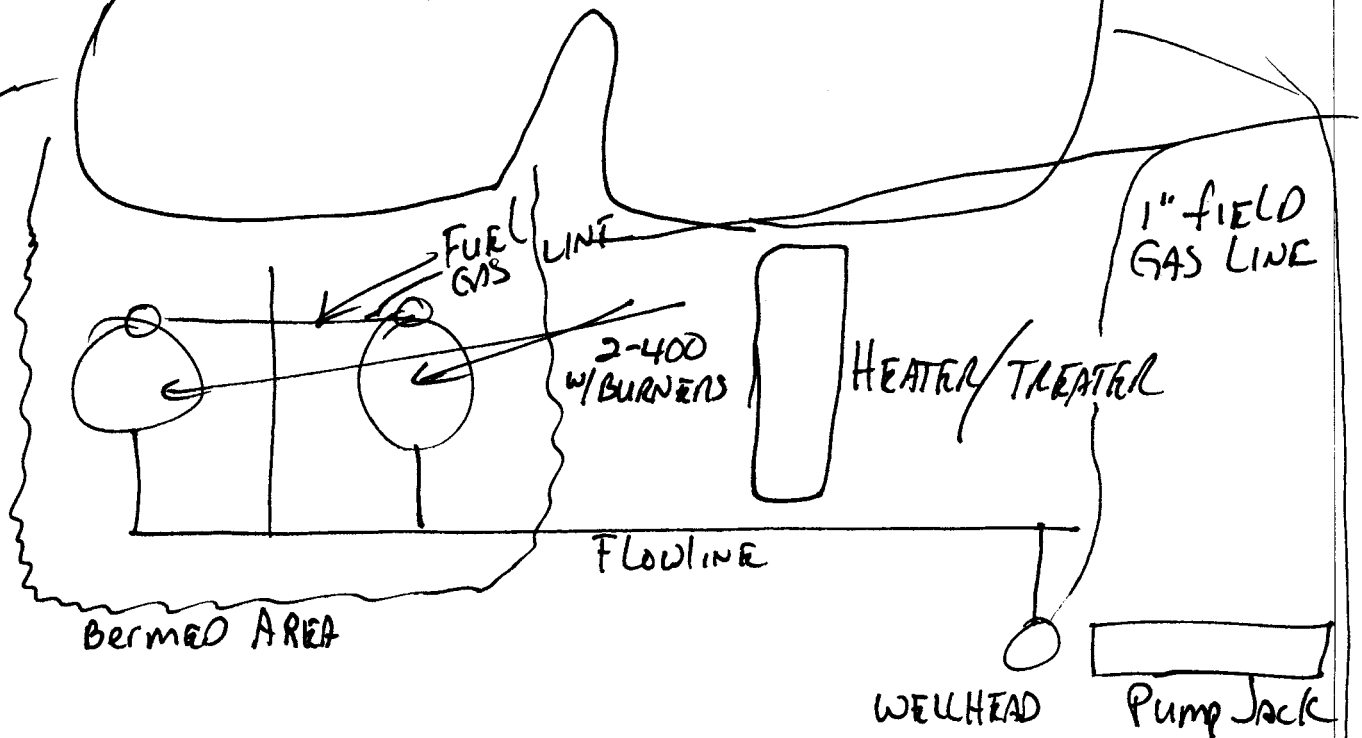
Sec 17 T9S R17E

POW

7/13/94

NORTH

FENCED RESERVE PIT



1-130 PIT TANK  
NOT YET INSTALLED

ENTRANCE

WELLHEAD

Pump Jack

Dennis J. [Signature]

42 281 50 SHEETS 5 SQUARE  
42 282 100 SHEETS 5 SQUARE  
42 283 200 SHEETS 5 SQUARE  
42 284 300 SHEETS 5 SQUARE  
42 285 400 SHEETS 5 SQUARE  
42 286 500 SHEETS 5 SQUARE  
42 287 600 SHEETS 5 SQUARE  
42 288 700 SHEETS 5 SQUARE  
42 289 800 SHEETS 5 SQUARE  
42 290 900 SHEETS 5 SQUARE  
42 291 1000 SHEETS 5 SQUARE



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

See other In-  
structions on  
reverse side)

Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. UUU-72106			
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. REVEN. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME n/a			
2. NAME OF OPERATOR Equitable Resources Energy Company, Balcon Oil Division		7. TRIT AGREEMENT NAME n/a			
3. ADDRESS OF OPERATOR P.O. Box 21017, Billings, MT 59104		8. FARM OR LEASE NAME Balcon Monument Federal			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980' FNL, 660' FWL  At top prod. interval reported below  At total depth		9. WELL NO. #12-17			
14. PERMIT NO. 43-013-31431		DATE ISSUED 12-21-93			
15. DATE SPUDDED 5-31-94		16. DATE T.D. REACHED 6-10-94			
17. DATE COMPL. (Ready to prod.) 7-5-94		18. ELEVATIONS (OF, RKB, RT, GR, ETC.)* 5407.9' GL			
19. ELEV. CASINGHEAD n/a		10. FIELD AND POOL, OR WILDCAT Monument Butte/Green River			
11. REC. T. R. N., OR BLOCK AND SURVEY, OR AREA SW NW Section 17, T9S, R17E		12. COUNTY OR PARISH Duchesne			
13. STATE Utah		25. WAS WELL CORED No			
15. DATE SPUDDED 5-31-94		16. DATE T.D. REACHED 6-10-94			
17. DATE COMPL. (Ready to prod.) 7-5-94		18. ELEVATIONS (OF, RKB, RT, GR, ETC.)* 5407.9' GL			
19. ELEV. CASINGHEAD n/a		10. FIELD AND POOL, OR WILDCAT Monument Butte/Green River			
11. REC. T. R. N., OR BLOCK AND SURVEY, OR AREA SW NW Section 17, T9S, R17E		12. COUNTY OR PARISH Duchesne			
13. STATE Utah		25. WAS WELL CORED No			
20. TYPE ELECTRIC AND OTHER LOGS RUN DL-MSEL-LDT-ONL 6R/CBL MUD LOG 6-13-94		27. WAS WELL CORED No			
28. CASING RECORD (Report all strings set in well)					
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)	
8-5/8"		24#		380'KB	
5-1/2"		15.5#		5660.17' KB	
29. LINER RECORD					
SIZE		TOP (MD)		BOTTOM (MD)	
n/a					
30. TUBING RECORD					
SIZE		DEPTH SET (MD)		PACKER SET (MD)	
2-7/8"		5006.80' KB		n/a	
31. PERFORATION RECORD (Interval, size and number)					
4939'-4947' (4 SPF)					
4950'-4954' (4 SPF)					
3985'-3988' (4 SPF)					
3990'-4000' (4 SPF)					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
4939' - 4954'		2016 gals 2% KCL, 74,400# 16/30			
		sand w/25,000 gals 2% KCL gelled wtr			
3985' - 4000'		2982 gals 2% KCL, 57,400# 16/30 sand			
		w/19,740 gals 2% KCL gelled wtr.			
33. PRODUCTION					
DATE FIRST PRODUCTION 7-5-94		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 1-1/2" Insert Pump			WELL STATUS (Producing or shut-in) Producing
DATE OF TEST 7-18-94		HOURS TESTED 24		CHOKS SIZE n/a	
FLOW, TUBING PRESS. n/a		CASING PRESSURE n/a		CALCULATED 24-HOUR RATE 70	
				OIL—BBL. 70	
				GAS—MCF. N.M.	
				WATER—BBL. 0	
				OIL GRAVITY-API (CORR.) 34	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel					TEST WITNESSED BY Dale Griffin
35. LIST OF ATTACHMENTS					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <u>Bobbie Schuman</u>		TITLE <u>Regulatory and Environmental Specialist</u>		DATE <u>8-3-94</u>	

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

# GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			No DST's run.	Geological Report submitted separately.		

RECEIVED

AUG 8 1994

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

UTU-72106

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcron Monument Federal #12-17

9. API Well No.

43-013-31431

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne Courty, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

P.O. Box 21017, Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW NW Section 17, T9S, R17E

1980' FNL, 660' FWL

**12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**TYPE OF SUBMISSION**

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Site Security Diagram  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached is the Site Security Diagram for this well.

14. I hereby certify that the foregoing is true and correct

Signed

Bobbie Schuman

Title

Regulatory and  
Environmental Specialist

Date

8-3-94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

# Equitable Resources Energy Company Balcron Monument Federal 12-17 Production Facility Diagram

Balcron Monument Federal 12-17  
SW NW Sec. 17, T9S, R17E  
Duchesne County, Utah  
Federal Lease #UTU-72106  
1980' FNL, 660' FWL

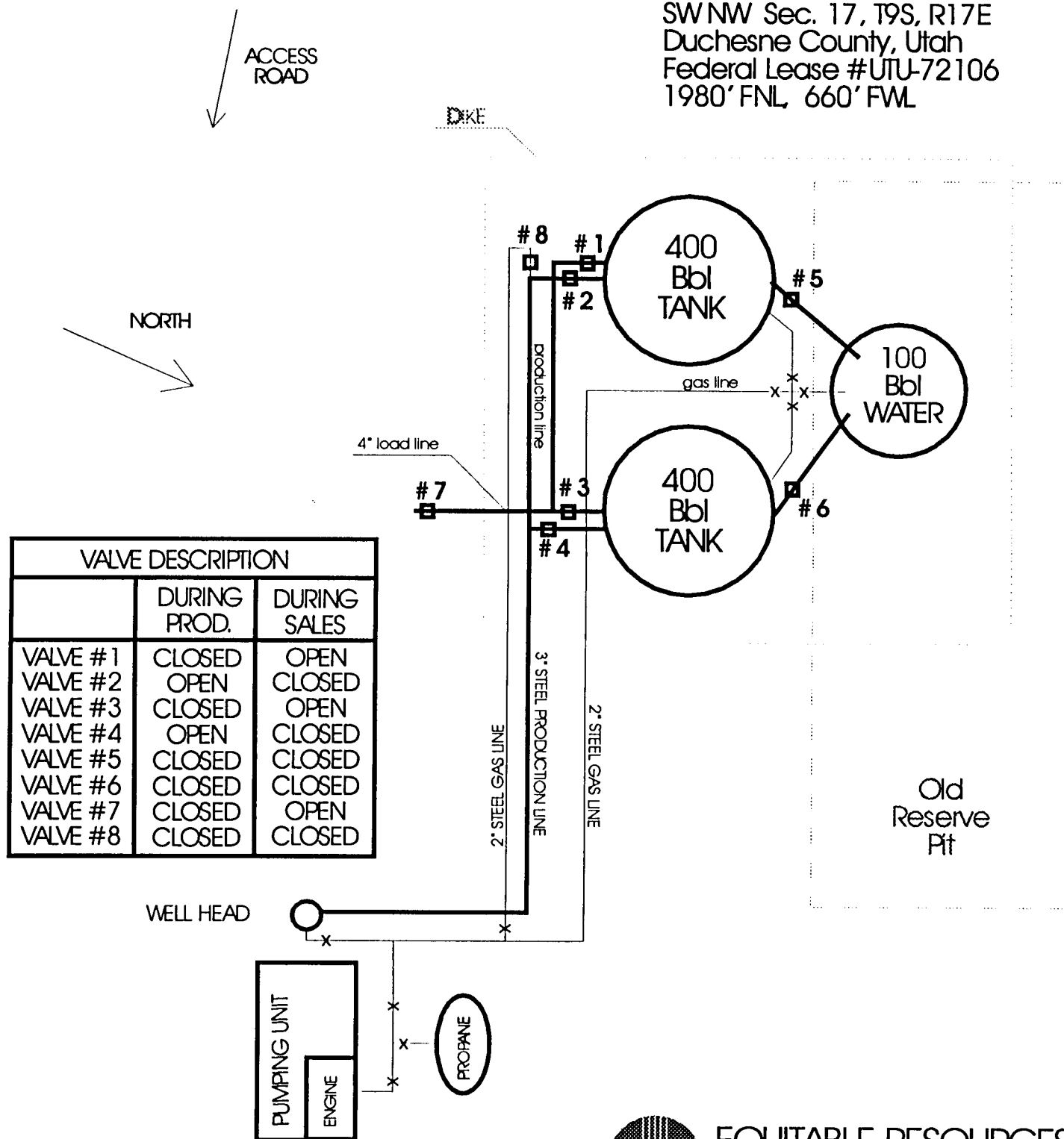


DIAGRAM NOT TO SCALE



**EQUITABLE RESOURCES  
ENERGY COMPANY**

**BALCRON OIL DIVISION**

1601 Lewis Avenue  
P.O. Box 21017  
Billings, MT 59104-1017  
(406) 259-7860

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.  
P.O. Box 21017, Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SW NW Section 17, T9S, R17E  
1980' fNL, 660' FWL

5. Lease Designation and Serial No.  
UTU-72106

6. If Indian, Allottee or Tribe Name  
n/a

7. If Unit or CA, Agreement Designation  
n/a

8. Well Name and No.  
Balcron Monument Federal #12-17

9. API Well No.  
43-013-31431

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State  
Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Onshore Order #7	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Any water produced by this well will be held in a produced water tank and trucked to a commercial disposal facility. The primary facility to be used is the R.N. Industries produced water disposal facility located in Section 9, T2S, R2W in Duchesne County, Utah. A copy of the State-issued permit for that facility is on file at the Vernal Bureau of Land Management. If for some reason the operator is unable to use this primary disposal facility, the produced water will be trucked to another State-approved disposal facility. If applicable, Operator has received approved Right-of-Way access to this well location for the Vernal Bureau of Land Management.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

14. I hereby certify that the foregoing is true and correct

Regulatory and

Environmental Specialist

Signed Robbie Schuman

Title Environmental Specialist Date 8-3-94

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## REPORT OF WATER ENCOUNTERED DURING DRILLING

AUG 8

1. Well name and number: Balcron Monument Federal #12-17API number: 43-013-314312. Well Location: QQ SW NW Section 17 Township 9S Range 17E County Duchesne3. Well operator: Equitable Resources Energy Company, Balcron Oil DivisionAddress: P.O. Box 21017,Billings, MT 59104Phone: (406) 259-78604. Drilling contractor: Union DrillingAddress: Drawer 40Buckhannon, WV 26201Phone: (304) 472-4610

5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
		No measurable water reported	during drilling operations.

6. Formation tops:

Geological report submitted separately.

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

Name & Signature: Bobbie SchumanBobbie SchumanDate: 8-3-94Regulatory and  
Title: Environmental Specialist

OPERATOR EQUITABLE RESOURCES ENERGY

OPERATOR ACCT. NO. H9890

ADDRESS BALCRON OIL DIVISION

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D		11880				9S	17E		DUCHESNE		
WELL 1 COMMENTS: *BELUGA UNIT EFF 2-1-96 (SEE ATTACHED LIST OF WELLS BEING CHANGED FROM CURRENT ENTITY TO NEW UNIT ENTITY 11880).											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

L. CORDOVA (DOGM)

Signature

ADMIN. ANALYST

2-22-96

Title

Date

Phone No. ( )

**EQUITABLE RESOURCES  
ENERGY COMPANY****BALCRON OIL DIVISION**1601 Lewis Avenue  
Billings, MT 59102  
(406) 259-7860★FAX TRANSMITTAL★FAX NO.: (406) 245-1365

**TO:** NAME: Leesha  
COMPANY: Utah, Division of Oil, Gas, & Mining  
DATE: 02-21-96  
FAX #:

**FROM:** Molly Conrad  
Equitable Resources Energy Company, Balcron Oil Division  
1601 Lewis Avenue  
Billings, MT 59102  
Phone: (406) 259-7860 ext 236

TOTAL # OF PAGES 2  
(including this cover sheet)

If you do not receive all pages, please call back as soon as possible at (406) 259-7860.

**TELECOMMUNICATOR:** mmc

**SPECIAL INSTRUCTIONS:**

Here is a list of the Beluga Unit wells that you requested yesterday. Please let me know when you come up with an Entity Action number for them. The unit was effective 2-1-96, so I will have to change all of my records before reporting February production.  
Thanks for your help!!

**NOTE:** The information contained in this facsimile message is privileged and confidential, and is intended only for the use of the individual(s) or entity name above who have been specifically authorized to receive it. If the reader is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return all pages to the address shown above. THANK YOU.

## STATE OF UTAH

## DIVISION OF OIL, GAS AND MINING

355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 1 of 11

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
EQUITABLE RESOURCES ENERGY  
1601 LEWIS AVE  
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 12 / 95

AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
BOLL WEEVIL FED 26-13								
4301330770	00035	08S 16E 26	GRRV					
CASTLE PK ST 43-16								
4301330594	01181	09S 16E 16	GRRV					
<del>PALETTE FEDERAL 34-28</del>								
4301330778	01200	09S 17E 8	GRRV					
<del>MOCON FED 14-7</del>								
4301330666	01205	09S 17E 7	GRRV					
<del>PALETTE FEDERAL 34-17</del>								
4301330516	01210	09S 17E 17	GRRV					
<del>PALETTE FEDERAL 34-8</del>								
4301330675	01220	09S 17E 8	GRRV					
JORNEY FED 1-9								
4304730070	01260	09S 19E 9	GRRV					
CASTLE PK FED 24-10A								
4301330555	01281	09S 16E 10	GRRV					
HENDEL FED 1-17								
4304730059	01305	09S 19E 17	GRRV					
HENDEL FED 3-17								
4304730074	01305	09S 19E 17	GRRV					
HENDEL FED. 1-9								
4304720011	01310	09S 19E 9	GRRV					
PARIETTE BENCH FED 14-5								
4304731123	01335	09S 19E 5	GRRV					
PARIETTE BENCH UNIT 2								
4304715680	01345	09S 19E 7	GRRV					
TOTALS								

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 2 of 11

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
EQUITABLE RESOURCES ENERGY  
1601 LEWIS AVE  
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890REPORT PERIOD (MONTH/YEAR): 12 / 95AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
PARIETTE BENCH FED 41-7								
4304731584	01346	09S 19E 7	GRRV					
<del>SUE MORRIS #16-3</del>								
4301330562	01450	09S 17E 16	GRRV					
STATE 16-2								
4301330552	01451	09S 17E 16	GRRV					
K JORGENSEN ST 16-4								
4301330572	01452	09S 17E 16	GRRV					
<del>W. J. DUNCAN ST 16-5</del>								
4301330570	01453	09S 17E 16	GRRV					
<del>PARIETTE FEDERAL 43-8</del>								
01330777	02042	09S 17E 8	GRRV					
<del>FEDERAL 18-18</del>								
4301330332	08100	09S 17E 18	DGCRK					
<del>POMGO #2</del>								
4301330505	08101	09S 17E 18	GR-WS					
<del>POMGO #4</del>								
4301330506	08102	09S 17E 17	GRRV					
<del>POMGO #5</del>								
4301330499	08104	09S 17E 17	GRRV					
PARIETTE BENCH FED 32-6								
4304731554	09885	09S 19E 6	GRRV					
PARIETTE BENCH FED 43-6								
4304731616	10280	09S 19E 6	GRRV					
<del>MAXUS FEDERAL 23-8</del>								
4301331196	10800	09S 17E 8	GRRV					
TOTALS								

REMARKS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
EQUITABLE RESOURCES ENERGY  
1601 LEWIS AVE  
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 12 / 95

AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
COYOTE FEDERAL 21-5								
4304732260	11500	08S 25E 5	GRRV					
COYOTE FEDERAL 13-5								
4304732261	11500	08S 25E 5	GRRV					
FEDERAL 22-10Y								
4301331395	11501	09S 17E 10	GRRV					
FEDERAL 41-21Y								
4301331392	11505	09S 16E 21	GRRV					
FEDERAL 44-14Y								
4304732438	11506	09S 17E 14	GRRV					
FEDERAL 21-13Y								
4301331400	11510	09S 16E 13	GRRV					
FEDERAL 21-9Y								
4301331396	11513	09S 16E 9	GRRV					
<del>MONUMENT FEDERAL 21-17</del>								
4301331387	11528	09S 17E 17	GRRV					
<del>FEDERAL 21-8E</del>								
4301331398	11529	09S 17E 8	GRRV					
FEDERAL 21-25Y								
4301331394	11530	09S 16E 25	GRRV					
<del>MONUMENT FEDERAL 13-8E</del>								
4301331382	11574	09S 17E 8	GRRV					
<del>MONUMENT FEDERAL 33-8E</del>								
4301331427	11613	09S 17E 8	GRRV					
<del>MONUMENT FEDERAL 43-7E</del>								
4301331432	11616	09S 17E 7	GRRV					
TOTALS								

REMARKS:

I hereby certify that this report is true and complete to the best of my knowledge.  
Date: \_\_\_\_\_  
Signature: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84110 1203

# MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
EQUITABLE RESOURCES ENERGY  
1601 LEWIS AVE  
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 12 / 95

AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
MONUMENT FEDERAL 11-25								
4304732455	11625	08S 17E 25	GRRV					
<del>MONUMENT FEDERAL 31-17</del>								
4301331428	11635	09S 17E 17	GRRV					
<del>MONUMENT FEDERAL 22-17</del>								
4301331429	11638	09S 17E 17	GRRV					
<del>BALCRON MONUMENT FEDERAL 12-17</del>								
4301331431	11640	09S 17E 17	GRRV					
ALLEN FEDERAL 31-6G								
4301331442	11642	09S 17E 6	GRRV					
BALCRON FEDERAL 41-19Y								
44732504	11651	09S 18E 19	GRRV					
BALCRON MONUMENT STATE 14-2								
4301331425	11656	09S 17E 2	GRRV					
FEDERAL 44-4Y								
4301331452	11679	09S 17E 4	GRRV					
FEDERAL 31-5Y								
4304732503	11680	09S 18E 5	GRRV					
BALCRON MONUMENT FEDERAL 21-25								
4304732528	11683	08S 17E 25	GRRV					
<del>MONUMENT FEDERAL 11-17</del>								
4301331466	11692	09S 17E 17	GRRV					
MONUMENT FEDERAL 12-25								
4304732526	11694	08S 17E 25	GRRV					
<del>MONUMENT FEDERAL 12-17</del>								
4301331467	11698	09S 17E 17	GRRV					
TOTALS								

COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 10 of 11

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
EQUITABLE RESOURCES ENERGY  
1601 LEWIS AVE  
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 12 / 95

AMENDED REPORT ☐ (Highlight Changes)

Well Name	PI Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes		
							OIL(BBL)	GAS(MCF)	WATER(BBL)
MONUMENT FEDERAL 32-17E	4301331465	11704	09S 17E 17	GRRV					
MONUMENT FEDERAL 32-25	4304732524	11707	08S 17E 25	GRRV					
MONUMENT FEDERAL 31-25	4304732530	11710	08S 17E 25	GRRV					
BALCRON FEDERAL 12-22Y	4301331476	11717	08S 17E 22	GRRV					
MONUMENT FEDERAL 33-25	4304732525	11729	08S 17E 25	GRRV					
MONUMENT FEDERAL 23-25	4304732529	11730	08S 17E 25	GRRV					
BALCRON MONUMENT STATE 24-2	4304732612	11736	09S 17E 2	GRRV					
BALCRON MONUMENT STATE 13-2	4301331482	11738	09S 17E 2	GRRV					
BALCRON MONUMENT STATE 22-2	4304732610	11742	09S 17E 2	GRRV					
BALCRON MONUMENT STATE 12-2	4301331481	11745	09S 17E 2	GRRV					
BALCRON FEDERAL 31-19Y	4304732614	11751	09S 18E 19	GRRV					
BALCRON FEDERAL 42-19Y	4304732616	11756	09S 18E 19	GRRV					
BALCRON FEDERAL 12-20Y	4304732617	11758	09S 18E 20	GRRV					
TOTALS									

REMARKS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

OPERATOR EQUITABLE RESOURCES ENERGY  
ADDRESS BALCRON OIL DIVISION

OPERATOR ACCT. NO. H9890

ENTITY ACTION FORM - FORM 6

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D		11880				9S	17E		DUCHESNE		
WELL 1 COMMENTS: *BELUGA UNIT EFF 2-1-96 (SEE ATTACHED LIST OF WELLS BEING CHANGED FROM CURRENT ENTITY TO NEW UNIT ENTITY 11880).											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

L. CORDOVA (DOGM)

Signature

ADMIN. ANALYST

2-22-96

Title

Date

Phone No. ( )

**EQUITABLE RESOURCES  
ENERGY COMPANY****BALCRON OIL DIVISION**1601 Lewis Avenue  
Billings, MT 59102  
(406) 259-7860**★FAX TRANSMITTAL★****FAX NO.: (406) 245-1365**

**TO:**   **NAME:**       Leesha  
         **COMPANY:**   Utah, Division of Oil, Gas, & Mining  
         **DATE:**       02-21-96  
         **FAX #:**

**FROM:**           Molly Conrad  
                    Equitable Resources Energy Company, Balcron Oil Division  
                    1601 Lewis Avenue  
                    Billings, MT 59102  
                    Phone: (406) 259-7860 ext 236

**TOTAL # OF PAGES 2**  
**(including this cover sheet)**

If you do not receive all pages, please call back as soon as possible at (406) 259-7860.

**TELECOMMUNICATOR:**       mmc

**SPECIAL INSTRUCTIONS:**

Here is a list of the Beluga Unit wells that you requested yesterday. Please let me know when you come up with an Entity Action number for them. The unit was effective 2-1-96, so I will have to change all of my records before reporting February production.

Thanks for your help!!

**NOTE:** The information contained in this facsimile message is privileged and confidential, and is intended only for the use of the individual(s) or entity name above who have been specifically authorized to receive it. If the reader is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return all pages to the address shown above. **THANK YOU.**

✓ A. Anderson State #1-16	Monument Butte	SW SW	16	9S	17E	Duchesne	UT	Oil (Sl)	Green River	ML-3453	43-013-15582	680' FSL, 560' FWL		Beluga
✓ Balcon Monument Fed. #12-17	Monument Butte	SW NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31431	1980' FNL, 660' FWL	Vernal	Beluga
✓ Balcon Monument Fed. #13-8	Monument Butte	NW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31382	2060' FSL, 694' FWL	Vernal	Beluga
✓ Balcon Monument Fed. #14-8	Monument Butte	SW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31388	660' FSL, 660' FWL	Vernal	Beluga
✓ Balcon Monument Fed. #21-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	U-3583-A	43-013-31387	500' FNL, 1980' FWL	Vernal	Beluga
✓ Balcon Monument Fed. #22-17	Monument Butte	SE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31429	1800' FNL, 1980' FWL	Vernal	Beluga
✓ Balcon Monument Fed. #31-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31428	660' FNL, 1980' FEL	Vernal	Beluga
✓ Balcon Monument Fed. #32-17	Monument Butte	SW NE	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31485	1660' FNL, 1980' FEL	Vernal	Beluga
✓ Balcon Monument Fed. #33-8	Monument Butte	NW SE	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31427	1980' FSL, 1980' FEL	Vernal	Beluga
✓ Balcon Monument Fed. #41-17	Monument Butte	NE NE	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31466	660' FNL, 660' FEL	Vernal	Beluga
✓ Balcon Monument Fed. #42-17	Monument Butte	SE NE	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31467	1800' FNL, 700' FEL	Vernal	Beluga
✓ Balcon Monument Fed. #43-7	Monument Butte	NE SE	7	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31432	1850' FSL, 850' FEL	Vernal	Beluga
✓ D. Duncan State #16-5	Monument Butte	SW NW	16	9S	17E	Duchesne	UT	Oil	Green River	State ML-3453-B	43-013-30570	1922' FNL, 865' FWL		Beluga
✓ DND Federal #17-1	Monument Butte	NE SE	17	9S	17E	Duchesne	UT	Oil (Sl)	Green River	U-44430	43-013-30689	2059' FSL, 0584' FEL	Vernal	Beluga
✓ Federal #1-18	Monument Butte	NW NE	18	9S	17E	Duchesne	UT	OSI	Green River	U-3563	43-013-30332	636' FNL, 2186' FEL	Vernal	Beluga
✓ Macon Federal #23-8	Monument Butte	NE SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31196	1847' FSL, 1947' FWL	Vernal	Beluga
✓ Macon Federal #44-7	Monument Butte	SE SE	7	9S	17E	Duchesne	UT	Oil	Green River	U-3563-A	43-013-30666	670' FSL, 683' FEL	Vernal	Beluga
✓ Monument Federal #23-17-9-17B	Monument Butte	NE SW	17	9S	17E	Duchesne	UT	PND	Green River	UTU-74108		2217' FSL, 2187' FWL	Vernal	Beluga
✓ Monument Federal #33-17-9-17B	Monument Butte	NW SE	17	9S	17E	Duchesne	UT	PND	Green River	U-72106		1926' FSL, 2000' FEL	Vernal	Beluga
✓ Monument State #13-16-9-17B	Monument Butte	NW SW	16	9S	17E	Duchesne	UT	PND	Green River	State ML-3453-B	43-013-31580	1980' FSL, 660' FWL		Beluga
✓ Monument State #22-16-9-17B	Monument Butte	SE NW	16	9S	17E	Duchesne	UT	PND	Green River	State ML-3453-B	43-013-31579	1824' FNL, 1981' FWL		Beluga
✓ Monument State #23-16-9-17B	Monument Butte	NE SW	16	9S	17E	Duchesne	UT	PND	Green River	State ML-3453-B	43-013-31578	1980' FSL, 1980' FWL		Beluga
✓ Paiute Federal #11-17	Monument Butte	NW NW	17	9S	17E	Duchesne	UT	Oil	Green River	U-3563-A	43-047-30516	861' FNL, 664' FWL	Vernal	Beluga
✓ Paiute Federal #24-8	Monument Butte	SE SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-30675	660' FSL, 1980' FWL	Vernal	Beluga
✓ Paiute Federal #34-8	Monument Butte	SW SE	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-30778	860' FSL, 1980' FEL	Vernal	Beluga
✓ Paiute Federal #43-8	Monument Butte	NE SE	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-30777	1958' FSL, 711' FEL	Vernal	Beluga
✓ POMCO #2	Monument Butte	NW SE	18	9S	17E	Duchesne	UT	OTA	Green River	U-3583	43-013-30505	1980' FSL, 1980' FEL	Vernal	Beluga
✓ POMCO #4	Monument Butte	SW SW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-103-30506	660' FSL, 660' FWL	Vernal	Beluga
✓ POMCO #5	Monument Butte	NW SW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-30499	1980' FSL, 660' FWL	Vernal	Beluga
✓ Sue Morris #16-3	Monument Butte	NE NW	16	9S	17E	Duchesne	UT	OSI	Green River	State ML-3453-B	43-013-30562	660' FNL, 1980' FWL		Beluga

N4940-Enserch Explor. Inc.  
(Open. chg. in Progress)

N8395-Prod. Recovery Corp.  
(Open. chg. in Progress)



EQUITABLE **RESOURCES**  
ENERGY COMPANY

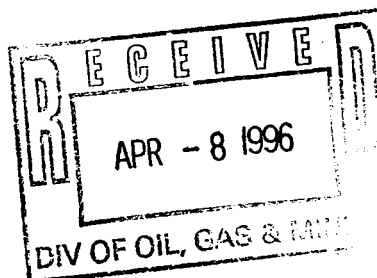
**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102

Office: (406) 259-7860  
FAX: (406) 245-1365 ☐  
FAX: (406) 245-1361 ☒

March 22, 1996

Utah Division of Oil, Gas and Mining  
355 West North Temple  
Salt Lake City, UT 84180



Gentlemen:

Effective April 1, 1996, our name will change from Equitable Resources Energy Company, Balcron Oil Division to Equitable Resources Energy Company. Attached is a sundry notice reflecting that change. To simplify paperwork, I have done one sundry notice with copies for each of the wells. To this letter I have attached a list of our wells for your ease in filing the sundry notices in the well files. This should be sufficient for your purposes.

I have the listings on a spreadsheet so if it would be easier for you to have them sorted differently (for example, the Montana Board of Oil and Gas prefers them sorted by API number), please give me a call at (406) 259-7860, extension 240 and I would be glad to provide a list to your specifications.

This change affects only our company name. The physical locations of our offices and the personnel remain the same. We will be changing our well signs and ask for your patience and cooperation as this will be done as soon as possible but may take some time since we do have so many properties at which to make the change.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

*Bobbie Schuman*  
Bobbie Schuman  
Regulatory and  
Environmental Specialist

/hs

Enclosures



OPERATOR EQUITABLE RESOURCES ENERGY  
ADDRESS BALCRON OIL DIVISION

OPERATOR ACCT. NO. H9890

ENTITY ACTION FORM - FORM 6

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D		11880				9S	17E		DUCHESNE		
WELL 1 COMMENTS: *BELUGA UNIT EFF 2-1-96 (SEE ATTACHED LIST OF WELLS BEING CHANGED FROM CURRENT ENTITY TO NEW UNIT ENTITY 11880).											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

L. CORDOVA (DOGM)

Signature

ADMIN. ANALYST

2-22-96

Title

Date

Phone No. ( )

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

# SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: See attached listing

2. Name of Operator:  
Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone Number:  
1601 Lewis Avenue Avenue; Billings, MT 59102 (406) 259-7860

4. Location of Well  
Footages: See attached listing

QQ, Sec., T., R., M.:

5. Lease Designation and Serial Number:  
See attached listing

6. If Indian, Allottee or Tribe Name:  
n/a

7. Unit Agreement Name:  
See attached listing

8. Well Name and Number:  
See attached listing

9. API Well Number:  
See attached listing

10. Field and Pool, or Wildcat:  
See attached listing

County: See attached list

State: UTAH

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

### NOTICE OF INTENT (Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon                   | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans           | <input type="checkbox"/> Recomplete           |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion       | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____               |   |

Approximate date work will start \_\_\_\_\_

### SUBSEQUENT REPORT (Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandon                                      | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing                                | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                              | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Convert to Injection                         | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize                    | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Operator name change</u> |   |

Date of work completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

## 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective April 1, 1996, operator will change its name from Equitable Resources Energy Company, Balcron Oil Division TO: Equitable Resources Energy Company. Physical location of the operator remains as: 1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860, FAX: (406) 145-1361. This is to report the operator name change only. It affects the wells on the attached listing.

13. Name & Signature: Bobbie Schuman  
Bobbie Schuman

Title: Regulatory and Environmental Specialist Date: March 27, 1996

(This space for State use only)

Division of Oil, Gas and Mining  
OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.  
Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold)  
☐ Designation of Operator

☐ Designation of Agent  
~~XXX~~ Operator Name Change Only

Routing:
1 DEP 7-SJ ✓
2 DEP 58-FILE
3 VLD (GIL) ✓
4 RJE ✓
5 JEB ✓
6 FILM

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-96)

TO (new operator)	<u>EQUITABLE RESOURCES ENERGY COEROM</u> (former operator)	<u>EQUITABLE RESOURCES ENERGY CO</u>
(address)	<u>1601 LEWIS AVE</u>	(address) <u>BALCRON OIL DIVISION</u>
	<u>BILLINGS MT 59102-4126</u>	<u>1601 LEWIS AVE</u>
		<u>BILLINGS MT 59102-4126</u>
	phone (406) <u>259-7860</u>	phone (406) <u>259-7860</u>
	account no. <u>N9890</u>	account no. <u>N9890</u>

Well(s) (attach additional page if needed):

Name: <b>**SEE ATTACHED**</b>	API: <u>013-31431</u>	Entity: _____	Sec _____	Tw _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Tw _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Tw _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Tw _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Tw _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Tw _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Tw _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Yes 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 4-4-96 & 4-8-96)
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- \* 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) ~~for each well listed above.~~ (4-10-96)
- Yes 6. Cardex file has been updated for each well listed above. (4-11-96)
- Yes 7. Well file labels have been updated for each well listed above. (4-11-96)
- Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (4-10-96)
- Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

### ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only)

# 5578314 (\$80,000) Scheco Ins. Co. (Bond Rider In Progress)

- Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
- N/A 3. The former operator has requested a release of liability from their bond (yes/no)   . Today's date                      19  . If yes, division response was made by letter dated                      19  .

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated                      19  , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 4/26/96
- ATS 2. Copies of documents have been sent to State Lands for changes involving State leases.  
Sent to Ed Bonner - Trust Lands

### FILMING

- CDP 1. All attachments to this form have been microfilmed. Date: May 20 1996.

### FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS

9/6/04/10 BLM/BIA "Formal approval not necessary"

**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 11 of 11

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION  
 EQUITABLE RESOURCES ENERGY  
 1601 LEWIS AVE  
 BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890REPORT PERIOD (MONTH/YEAR): 3 / 96AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓ MAXUS FEDERAL 23-8								
4301331196	11880	09S 17E 8	GRRV					
✓ MONUMENT FEDERAL 13-8								
4301331382	11880	09S 17E 8	GRRV					
✓ MONUMENT FEDERAL 21-17								
4301331387	11880	09S 17E 17	GRRV					
✓ FEDERAL 14-8								
4301331398	11880	09S 17E 8	GRRV					
✓ MONUMENT FEDERAL 33-8								
4301331427	11880	09S 17E 8	GRRV					
✓ MONUMENT FEDERAL 31-17								
01331428	11880	09S 17E 17	GRRV					
✓ MONUMENT FEDERAL 22-17								
4301331429	11880	09S 17E 17	GRRV					
✓ BALCRON MONUMENT FEDERAL 12-17								
4301331431	11880	09S 17E 17	GRRV					
✓ MONUMENT FEDERAL 43-7								
4301331432	11880	09S 17E 7	GRRV					
✓ MONUMENT FEDERAL 32-17								
4301331465	11880	09S 17E 17	GRRV					
✓ MONUMENT FEDERAL 41-17								
4301331466	11880	09S 17E 17	GRRV					
✓ BALCRON MONUMENT FEDERAL 42-17								
4301331467	11880	09S 17E 17	GRRV					
TOTALS								

COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

UTAH - ALL

Balcron Coyote Fed. #42-6X	Coyote Basin	SE NE	6	8S	25E	Uintah	UT	OSI	Green River	U-017439-B	43-047-32346	1987' FNL, 682' FEL	Vernal	Coyote Basin
Balcron Coyote Fed. #44-6	Coyote Basin	SE SE	6	8S	25E	Uintah	UT	PND	Green River	U-017439B	43-047-32421	560' FSL, 760' FEL	Vernal	Coyote Basin
Balcron Federal #12-20Y	8 Mile Flat N.	SW NW	20	9S	18E	Uintah	UT	Oil	Green River	U-64917	43-047-32617	1980' FNL, 660' FWL	Vernal	
Balcron Federal #12-22Y	8 Mile Flat N.	SW NW	22	8S	17E	Duchesne	UT	Oil	Green River	U-66191	43-013-31476	2105' FNL, 660' FWL	Vernal/Priv.sfc.	
Balcron Federal #21-13Y	Monument Butte	NE NW	13	9S	16E	Duchesne	UT	Oil	Green River	U-64805	43-013-31400	703' FNL, 1831' FWL	Vernal	
Balcron Federal #21-25Y	Monument Butte	NE NW	25	9S	16E	Duchesne	UT	Oil	Green River	U-64380	43-013-31994	500' FNL, 1980' FWL	Vernal	
Balcron Federal #21-9Y	Monument Butte	NE NW	9	9S	16E	Duchesne	UT	Oil	Green River	U-65207	43-013-31396	476' FNL, 2051' FWL	Vernal	
Balcron Federal #22-10Y	Monument Butte	SE NW	10	9S	17E	Duchesne	UT	Oil	Green River	U-65210	43-013-31395	1980' FNL, 1980' FWL	Vernal	
Balcron Federal #24-3Y	Monument Butte	SE SW	3	9S	17E	Duchesne	UT	Oil	Green River	U-64381	43-013-31397	562' FSL, 1887' FWL	Vernal	
Balcron Federal #31-14Y	Undesignated	NW NE	14	9S	19E	Uintah	UT	PND	WASATCH	U-66193		500' FNL, 2740' FWL	Vernal/Priv.sfc.	
Balcron Federal #31-19Y	8 Mile Flat N.	NW NE	19	9S	18E	Duchesne	UT	Oil	Green River	U-65635	43-047-32614	660' FNL, 1880' FEL	Vernal	
Balcron Federal #31-5Y	8 Mile Flat N.	NW NE	5	9S	18E	Uintah	UT	Oil	Green River	U-65970	43-047-32503	660' FNL, 1980' FEL	Vernal	
Balcron Federal #32-19Y	8 Mile Flat N.	SW NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32615	1980' FNL, 1980' FEL	Vernal	
Balcron Federal #41-19Y	Monument Butte	NE NE	19	9S	17E	Duchesne	UT	Oil	Green River	U-65967	43-047-32504	660' FSL, 660' FEL	Vernal	
Balcron Federal #41-21Y	Monument Butte	NE NE	21	9S	16E	Duchesne	UT	Oil	Green River	U-64379	43-013-31392	970' FNL, 894' FEL	Vernal	
Balcron Federal #42-19Y	8 Mile Flat N.	SE NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32616	2100' FNL, 500' FEL	Vernal	
Balcron Federal #44-14Y	Monument Butte	SE SE	14	9S	17E	Uintah	UT	Oil	Green River	U-64806	43-047-32438	1008' FSL, 832' FEL	Vernal	
Balcron Federal #44-4Y	8 Mile Flat N.	SE SE	4	9S	17E	Duchesne	UT	Oil	Green River	U-65635	43-013-31452	660' FNL, 660' FEL	Vernal	
Balcron Monument Fed. #11-10-9-17Y		NW NW	10	9S	17E	Duchesne	UT	PND	Green River				Vernal	
Balcron Monument Fed. #11-20-9-18Y	Monument Butte	NW NW	20	9S	18E	Uintah	UT	OIL	Green River	U-64917	43-047-32712	500' FNL, 500' FWL	Vernal	
Balcron Monument Fed. #11-22-8-17Y	Monument Butte	NW NW	22	8S	17E	Duchesne	UT	OIL	Green River	U-66191	43-013-31539	635' FNL, 658' FWL	Vernal	
Balcron Monument Fed. #11-25	Monument Butte	NW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32455	739' FNL, 648' FWL	Vernal	
Balcron Monument Fed. #11-6	Monument Butte	NW NW	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-31362	804' FNL, 696' FWL	Vernal	Jonah
Balcron Monument Fed. #11-7J	Monument Butte	NW NW	7	9S	17E	Duchesne	UT	COMPL-WIW	Green River	U-44426	43-013-31492	681' FNL, 447' FWL	Vernal	Jonah
Balcron Monument Fed. #12-10-9-17Y	Monument Butte	SW NW	10	9S	17E	Duchesne	UT	COMPL	Green River	U-65210	43-013-31536	1994' FNL, 618' FWL	Vernal	
Balcron Monument Fed. #12-11J	Monument Butte	SW NW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31417	2128' FNL, 689' FWL	Vernal	Jonah
Balcron Monument Fed. #12-12J	Monument Butte	SW NW	12	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31410	739' FNL, 648' FWL	Vernal	Jonah
Balcron Monument Fed. #12-14J	Monument Butte	SW NW	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31488	2004' FNL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #12-17	Monument Butte	SW NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31431	1980' FNL, 660' FWL	Vernal	Beluga
Balcron Monument Fed. #12-25	Undesignated	SW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32526	1486' FNL, 875.7' FWL	Vernal	
Balcron Monument Fed. #12-7J	Monument Butte	SW NW	7	9S	17E	Duchesne	UT	Oil	Green River	U-44426	43-013-31493	1965' FNL, 620' FWL	Vernal	Jonah
Balcron Monument Fed. #13-11J	Monument Butte	NW SW	11	9S	16E	Duchesne	UT	Oil	Green River	U-096547	43-013-15790	1819' FSL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #13-5	Monument Butte	NW SW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31370	1980' FSL, 660' FWL	Vernal	Jonah
Balcron Monument Fed. #13-8	Monument Butte	NW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31382	2060' FSL, 694' FWL	Vernal	Beluga
Balcron Monument Fed. #14-11	Monument Butte	SW SW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096547	43-013-31374	1048' FSL, 446' FWL	Vernal	Jonah

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

# SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator:

Inland Production Company

3. Address and Telephone Number:

475 - 17th Street, Suite 1500, Denver, CO 80202

4. Location of Well

Footages: See Attached Exhibit

OO, Sec., T., R., M.:

5. Lease Designation and Serial Number:

See Attached

6. If Indian, Allottee or Tribe Name:

n/a

7. Unit Agreement Name:

See Attached

8. Well Name and Number:

See Attached

9. API Well Number:

See Attached

10. Field and Pool, or Wildcat:

See Attached

County:

State:

## 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

### NOTICE OF INTENT (Submit in Duplicate)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandon                                    | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing                              | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                            | <input type="checkbox"/> Recomplete           |
| <input type="checkbox"/> Convert to Injection                       | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Fracture Treat or Acidize                  | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion                        | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Change of Operator</u> |   |

Approximate date work will start \_\_\_\_\_

### SUBSEQUENT REPORT (Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandon                                    | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing                              | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                            | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Convert to Injection                       | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize                  | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Change of Operator</u> |   |

Date of work completion 9-30-97

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective September 30, 1997, Inland Production Company will take over operations of the wells on the attached list. The previous operator was :

Equitable Resources Energy Company  
1601 Lewis Avenue  
Billings, MT 59102

Effective September 30, 1997, Inland Production Company is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under State of Utah Statewide Bond No. 4471291.

OCT 10 1997

13.

Name & Signature:

CHRIS A. POTTER, ATTORNEY-IN-FACT

Date: 9/30/97

This space for State use only)

## INLAND

Inland Resources Change of Operator							
WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGEEMENT
✓ BALCRON FEDERAL #22-20Y	SE NW 209S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32711-00	UTU64917	
✓ BALCRON FEDERAL #41-19Y	NENE 199S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32504-00	UTU65635	
✓ MONUMENT FEDERAL #43-19Y	NE SE 199S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32730-00	UTU65635	
✓ MONUMENT FEDERAL #14-21Y	SW SW 219S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32726-00	UTU68105	
✓ A. ANDERSON STATE #1-16	SW SW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-15582-00		UTU75023X
✓ D. DUNCAN STATE #16-5	SWNW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30570-00		UTU75023X
✓ DMD FEDERAL #17-1	NE SE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30689-00		UTU75023X
✓ FEDERAL #1-18	NWNE 189S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30332-00		UTU75023X
✓ MAXUS FEDERAL #23-8	NESW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31196-00		UTU75023X
✓ MONUMENT BUTTE FED. #12-17	SWNW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31431-00		UTU75023X
✓ MONUMENT BUTTE FED. #14-8	SWSW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31398-00		UTU75023X
✓ MONUMENT BUTTE FED. #21-17	NENW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31387-00		UTU75023X
✓ MONUMENT BUTTE FED. #32-17	SWNE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31465-00		UTU75023X
✓ MONUMENT BUTTE FED. #41-17	NENE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31466-00		UTU75023X
✓ MONUMENT BUTTE FED. #43-7	NESE 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31432-00		UTU75023X
✓ MONUMENT FEDERAL #23-17B	NE SW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31582-00	UTU74108	UTU75023X
✓ MONUMENT STATE #23-16B	NE SW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31578-00		UTU75023X
✓ PAIUTE FEDERAL #34-8	SWSE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30778-00		UTU75023X
✓ PAIUTE FEDERAL #43-8	NESE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30777-00		UTU75023X
✓ POMCO #2	NWSE 189S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30505-00		UTU75023X
✓ POMCO #4	NWSW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30506-00		UTU75023X
✓ SUE MORRIS #16-3	NENW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30562-00		UTU75023X
✓ MOCON FEDERAL #44-7	SE SE 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30666-00		UTU75023X
✓ MONUMENT FEDERAL #13-8	NW SW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31382-00		UTU75023X
✓ MONUMENT FEDERAL #33-8	NW SE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31427-00		UTU75023X
✓ MONUMENT FEDERAL #22-17	SE NW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31429-00		UTU75023X
✓ MONUMENT STATE #13-16B	NW SW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31580-00		UTU75023X
✓ MONUMENT STATE #11-16B	NW NW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30616-00	ML21844 Beluga	UTU75023X
✓ MONUMENT STATE #22-16B	SE NW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31579-00	31145	UTU75023X
✓ MONUMENT FEDERAL #31-17	NW NE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31428-00		UTU75023X
✓ MONUMENT FEDERAL #33-17B	NW SE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31581-00		UTU75023X
✓ MONUMENT FEDERAL #42-17	SE NE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31467-00	UTU74108	UTU75023X
✓ MONUMENT FEDERAL #44-8-9-17B	SE SE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30643-00	UTU74398	UTU75023X
✓ PAIUTE FEDERAL #24-8	SE SW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30675-00	UTU74108	UTU75023X
✓ PAIUTE FEDERAL #11-17	NW NW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30516-00		UTU75023X
✓ POMCO #5	SW SW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30499-00		UTU75023X
✓ BALCRON FEDERAL #12-10Y	SW NW 109S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31536-00	UTU65210	
✓ BALCRON FEDERAL #21-10Y	NE NW 109S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31537-00	UTU65210	
✓ BALCRON FEDERAL #22-10Y	SE NW 109S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31395-00	UTU65210	



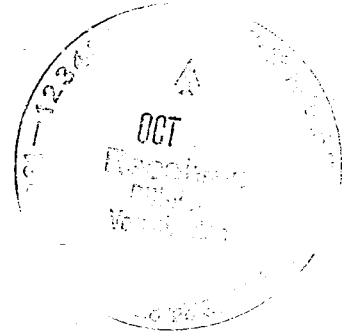


RECEIVED

OCT 10 1997

October 7, 1997

Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, UT 84078



RE: Change of Operator  
Duchesne & Vernal Counties, Utah


Dear Mr. Forsman:

Please find attached Sundry Notices and Reports on Wells for Change of Operator, previously operated by Equitable Resources Energy Company for approval.

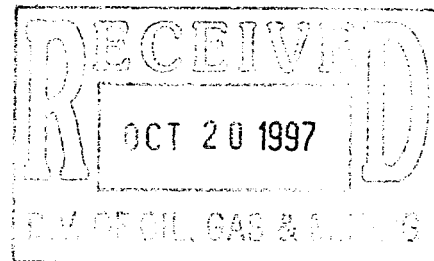
If you should have questions regarding this matter, please do not hesitate to contact me at the number listed below.

Sincerely,

INLAND PRODUCTION COMPANY

  
Patsy Barreau

/pb  
encls.





# EQUITABLE RESOURCES ENERGY COMPANY

**WESTERN REGION**

(406) 259-7860 Telephone

(406) 245-1361 Fax

December 10, 1997

Lisha  
State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, UT 84114-5801

Dear Lisha:

RE: Equitable Sale of Utah Properties

Effective September 30, 1997, Equitable Resources Energy Company sold all of its Utah properties to Inland Production Company.

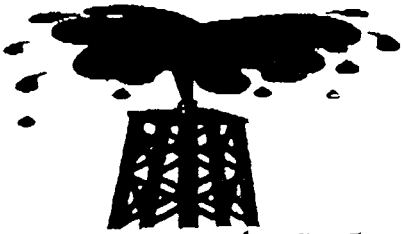
Please feel free to contact me if you require additional information.

Sincerely,

A handwritten signature in cursive script that reads "Molly Conrad".

Molly Conrad  
Agent for Equitable Resources  
Energy Company

/mc



Crazy Mountain Oil & Gas Services  
P.O. Box 577  
Laurel, MT 59044  
(406) 628-4164  
(406) 628-4165

TO: Lisha  
St of Utah.

FROM. Molly Conrad  
Crazy Mountain Oil & Gas Services  
(406) 628-4164

Pages Attached - Including Cover Sheet 2.

NOTE:

Here is the letter you requested.  
Call if you need anything  
further.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

IN REPLY REFER TO  
UT-931

March 2, 1998

Inland Production Company  
475 17th Street, Suite 1500  
Denver, Colorado 80202

Re: Beluga (Green River) Unit  
Duchesne County, Utah

Gentlemen:

On February 26, 1998, we received an indenture dated November 17, 1997, whereby Equitable Resources Energy Company resigned as Unit Operator and Inland Production Company was designated as Successor Unit Operator for the Beluga (Green River) Unit, Duchesne County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective March 2, 1998. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Beluga (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0056 will be used to cover all operations within the Beluga (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

### Enclosure

bcc: District Manager - Vernal (w/enclosure)  
Division of Oil, Gas & Mining  
Minerals Adjudication Group U-932  
File - Beluga (Green River) Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron/Fluid Chron

UT931:TAThompson:tt:3/2/98

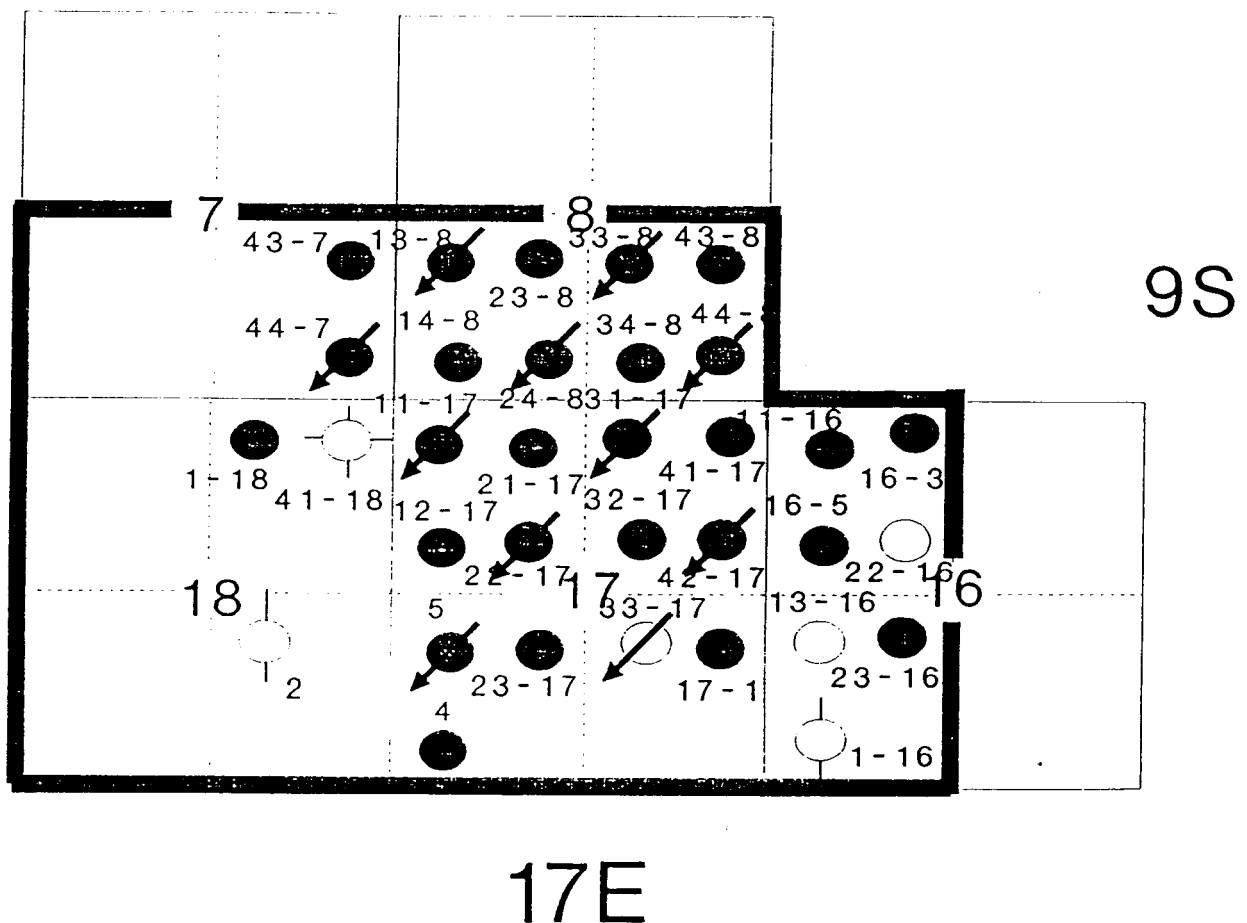
Well Status Report  
Utah State Office  
Bureau of Land Management

Lease	Api Number	Well Name	QTR	Section	Township	Range	Well Status	Operator
** Inspection Item: UTU75023X								
STATE	4301315582	1-16 SHELL-STATE	SWSW	16	T	9S	R17E	POW
UTU3563	4301330332	1-18 FEDERAL	NWNE	18	T	9S	R17E	TA
STATE	4301330616	11-16 STATE-NGC	NWNW	16	T	9S	R17E	ABD (WIW)
UTU72106	4301330516	11-17 PIUTE-FEDERAL	NWNW	17	T	9S	R17E	WIW
UTU72106	4301331431	12-17	SWNW	17	T	9S	R17E	POW
STATE	4301331580	13-16-9-17B	NWSW	16	T	9S	R17E	WIW
UTU74108	4301331382	13-8 MONUMENT FED	NWSW	8	T	9S	R17E	WIW
UTU74108	4301331398	14-8 MONUMENT FED	SWSW	8	T	9S	R17E	POW
STATE	4301330562	16-3 MORRIS SUE	NENW	16	T	9S	R17E	POW
STATE	4301330570	16-5 DUNCAN-STATE	SWNW	16	T	9S	R17E	POW
UTU44430	4301330689	17-1 FEDERAL-DMD	NESE	17	T	9S	R17E	POW
UTU3563	4301330505	2 POMCO	NWSE	18	T	9S	R17E	TA
UTU72106	4301331387	21-17 MONUMENT FED	NENW	17	T	9S	R17E	POW
STATE	4301331145	22-16-9-17B	SENW	16	T	9S	R17E	WIW
UTU72106	4301331429	22-17 MONUMENT FED	SENW	17	T	9S	R17E	WIW
STATE	4301331578	23-16-9-17B	NESW	16	T	9S	R17E	POW
UTU74108	4301331582	23-17-9-17B	NESW	17	T	9S	R17E	POW
UTU74108	4301331196	23-8 MAXUS-FEDERAL	NESW	8	T	9S	R17E	POW
UTU74108	4301330675	24-8 PIUTE-FEDERAL	SESW	8	T	9S	R17E	WIW
UTU72106	4301331428	31-17 MONUMENT BUTTE	NWNE	17	T	9S	R17E	WIW
UTU72106	4301331465	32-17	SWNE	17	T	9S	R17E	POW
UTU72106	4301331581	33-17-9-17B	NWSE	17	T	9S	R17E	WIW
UTU74108	4301331427	33-8 MONUMENT FED	NWSE	8	T	9S	R17E	WIW
UTU74108	4301330778	34-8 PAIUTE	SWSE	8	T	9S	R17E	POW
UTU74108	4301330506	4 POMCO	SWSW	17	T	9S	R17E	POW
UTU72106	4301331466	41-17	NENE	17	T	9S	R17E	POW
UTU72106	4301331399	41-18 BALCROW FED	NENE	18	T	9S	R17E	ABD (FA)
UTU72106	4301331467	42-17	SENE	17	T	9S	R17E	WIW
UTU72106	4301331432	43-7 MONUMENT BUTTE	NESE	7	T	9S	R17E	POW
UTU74108	4301330777	43-8 PAIUTE	NESE	8	T	9S	R17E	POW
UTU72106	4301330666	44-7 MOCOW-FEDERAL	SESE	7	T	9S	R17E	WIW
UTU74398	4301330643	44-8-9-17	SESE	8	T	9S	R17E	WIW
UTU74108	4301330499	5 POMCO	NWSW	17	T	9S	R17E	WIW

# BELUGA (GREEN RIVER) UNIT

## DUCHESNE COUNTY, UTAH

EFFECTIVE: FEBRUARY 1, 1996



— UNIT OUTLINE (UTU75023X)  
2,223.13 ACRES

SECONDARY ALLOCATION	
FEDERAL	89.74%
STATE	10.26%

## OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

Routing	
1-LEC <i>[initials]</i>	6-LEC <i>[initials]</i>
2-GLH <i>[initials]</i>	7-KAS <i>[initials]</i>
3-HTS <i>[initials]</i>	8-SI <i>[initials]</i>
4-VLD <i>[initials]</i>	9-FILE <i>[initials]</i>
5-JRB <i>[initials]</i>	

- ☒ Change of Operator (well sold)      ☐ Designation of Agent  
☐ Designation of Operator      ☐ Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 9-30-97

**TO:** (new operator) INLAND PRODUCTION CO.  
 (address) PO BOX 1446  
ROOSEVELT UT 84066  
 Phone: (435) 722-5103  
 Account no. N5160

**FROM:** (old operator) EQUITABLE RESOURCES ENERGY  
 (address) C/O CRAZY MTN O&G SVS'S  
PO BOX 577  
LAUREL MT 59044  
 Phone: (406) 628-4164  
 Account no. N9890

WELL(S) attach additional page if needed:

\*BELUGA (GREEN RIVER) UNIT

Name: <b>**SEE ATTACHED**</b>	API: <u>43-013-31431</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

## OPERATOR CHANGE DOCUMENTATION

- [initials]* 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). *(Rec'd 3-10-97)*
- [initials]* 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). *(Rec'd 10-20-97)*
- [initials]* 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state**? (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_
- [initials]* 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.
- [initials]* 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. *(3-11-98) \* Quattro Pro 2. DBASE (WIC) 3-11-98.*
- [initials]* 6. **Cardex** file has been updated for each well listed above. *(3-11-98)*
- [initials]* 7. **Well file labels** have been updated for each well listed above. *(3-11-98)*
- [initials]* 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(3-11-98)*
- [initials]* 9. A folder has been set up for the **Operator Change** file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

## ENTITY REVIEW

- Jec 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) \_\_\_\_ If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A/Jec 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

## BOND VERIFICATION - (FEE WELLS ONLY) Trust Lands - 80,000 Surety "Hartford Acc. & Indemnity Co."

- N/A/Jec 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.
- N/A/Jec 2. A **copy of this form** has been placed in the new and former operator's bond files.
- N/A/Jec 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) \_\_\_\_, as of today's date \_\_\_\_\_. If yes, division response was made to this request by letter dated \_\_\_\_\_.

## LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- Jec 1. Copies of documents have been sent on 3-11-98 to Ed Bonner at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A/Jec 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated \_\_\_\_\_ 19 \_\_\_\_, of their responsibility to notify all interest owners of this change.

## FILMING

- VB 1. All attachments to this form have been **microfilmed**. Today's date: 4.14.98.

## FILING

- \_\_\_ 1. **Copies** of all attachments to this form have been filed in each **well file**.
- \_\_\_ 2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

## COMMENTS

980311 BLM/SL Aprv. 3-2-98.



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

Page 3 of 5

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

C/O CRAZY MTN O&G SVS'S  
EQUITABLE RESOURCES ENERGY  
PO BOX 577  
LAUREL MT 59044

UTAH ACCOUNT NUMBER: N9890REPORT PERIOD (MONTH/YEAR): 1 / 98AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
SUE MORRIS 16-3								
4301330562	11880	09S 17E 16	GRRV			mL3453B	Beluga (62) unit	
D. DUNCAN ST 16-5								
4301330570	11880	09S 17E 16	GRRV			"		
FEDERAL D M D 17-1								
4301330689	11880	09S 17E 17	GRRV			u 44430		
PAIUTE FEDERAL 43-8								
4301330777	11880	09S 17E 8	GRRV			u 7978		
PAIUTE FEDERAL 34-8								
4301330778	11880	09S 17E 8	GRRV			"		
MAXUS FEDERAL 23-8								
4301331196	11880	09S 17E 8	GRRV			u 007978		
MONUMENT FEDERAL 21-17								
4301331387	11880	09S 17E 17	GRRV			u 3563A		
FEDERAL 14-8								
4301331398	11880	09S 17E 8	GRRV			u 007978		
BALCRON MONUMENT FEDERAL 12-17								
4301331431	11880	09S 17E 17	GRRV			u 72106		
MONUMENT FEDERAL 43-7								
4301331432	11880	09S 17E 7	GRRV			"		
MONUMENT FEDERAL 32-17								
4301331465	11880	09S 17E 17	GRRV			"		
MONUMENT FEDERAL 41-17								
4301331466	11880	09S 17E 17	GRRV			"		
MONUMENT STATE 23-16-9-17B								
4301331578	11880	09S 17E 16	GRRV			mL3453B	↓	
TOTALS								

COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_



## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas

SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>



IN REPLY REFER TO:  
3106  
(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office  
From: Acting Chief, Branch of Fluid Minerals  
Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change****Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004****FROM: (Old Operator):**

N5160-Inland Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**TO: ( New Operator):**

N2695-Newfield Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**CA No.****Unit:****BELUGA (GREEN RIVER)****WELL(S)**

NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
MONUMENT FED 43-7	07	090S	170E	4301331432	11880	Federal	OW	P
BELUGA 15-7-9-17	07	090S	170E	4301331579	11880	Federal	OW	P
BELUGA 10-7-9-17	07	090S	170E	4301332048	11880	Federal	WI	A
BELUGA 14-7-9-17	07	090S	170E	4301332049	11880	Federal	WI	A
MON FED 33-8	08	090S	170E	4301331427	11880	Federal	WI	A
MON ST 23-16-9-17B	16	090S	170E	4301331578	11880	State	OW	P
MON ST 13-16-9-17B	16	090S	170E	4301331580	11880	State	WI	A
MON FED 31-17	17	090S	170E	4301331428	11880	Federal	WI	A
MON FED 22-17	17	090S	170E	4301331429	11880	Federal	WI	A
BALCRON MON FED 12-17	17	090S	170E	4301331431	11880	Federal	OW	P
MONUMENT FED 32-17	17	090S	170E	4301331465	11880	Federal	OW	P
MONUMENT FED 41-17	17	090S	170E	4301331466	11880	Federal	OW	P
BALCRON MON FED 42-17	17	090S	170E	4301331467	11880	Federal	WI	A
MON FED 33-17-9-17B	17	090S	170E	4301331581	11880	Federal	WI	A
MON FED 23-17-9-17B	17	090S	170E	4301331582	11880	Federal	OW	P
BELUGA 3-18-9-17	18	090S	170E	4301332050	11880	Federal	OW	P
BELUGA 7-18-9-17	18	090S	170E	4301332051	11880	Federal	OW	TA
BELUGA 8-18-9-17	18	090S	170E	4301332052	11880	Federal	WI	A
BELUGA 9-18-9-17	18	090S	170E	4301332053	11880	Federal	OW	P
BELUGA U 4-18-9-17	18	090S	170E	4301332274	11880	Federal	OW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

#### DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 2/28/2005  
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005  
3. Bond information entered in RBDMS on: 2/28/2005  
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005  
5. Injection Projects to new operator in RBDMS on: 2/28/2005  
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

#### FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

#### INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

#### FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919  
2. The **FORMER** operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

#### LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

#### COMMENTS:

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1980 FNL 660 FWL  
SWNW Section 17 T9S R17E

5. Lease Serial No.

USA UTU-72106

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
BELUGA UNIT

8. Well Name and No.  
BALCRON MON FED 12-17

9. API Well No.  
4301331431

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input checked="" type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

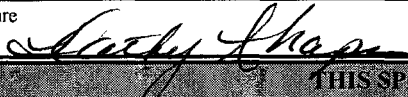
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The above reference well was put on production 10-20-07 after a pump change.

I hereby certify that the foregoing is true and  
correct (Printed/ Typed)

Kathy Chapman

Signature



Title

Office Manager

Date

01/30/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by .....

Conditions of approval, if any, are attached. Approval of this notice does not warrant or  
certify that the applicant holds legal or equitable title to those rights in the subject lease  
which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

**RECEIVED**

**FEB 06 2008**

**DIV. OF OIL, GAS & MINING**



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

USA UTU-72106

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

BELUGA UNIT

8. WELL NAME and NUMBER:

BALCRON MON FED 12-17

9. API NUMBER:

4301331431

10. FIELD AND POOL, OR WILDCAT:

MONUMENT BUTTE

1. TYPE OF WELL:

OIL WELL ☒

GAS WELL ☐

OTHER

2. NAME OF OPERATOR:

NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR:

Route 3 Box 3630

CITY Myton

STATE UT

ZIP 84052

PHONE NUMBER

435.646.3721

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 1980 FNL 660 FWL

COUNTY: DUCHESNE

OTR/OTR SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW, 17, T9S, R17E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Weekly Status Report
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  02/07/2008			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Status report for time period 10-19-07 - 10-20-07

Subject well had completion procedures (pump change). See attached daily activity report.

NAME (PLEASE PRINT) Kathy Chapman

TITLE Office Manager

SIGNATURE



DATE 02/07/2008

(This space for State use only)

RECEIVED

FEB 08 2008

DIV. OF OIL, GAS & MINING

**Daily Activity Report**

Format For Sundry

**BLCRN MON 12-17-9-17****8/1/2007 To 12/30/2007****10/19/2007 Day: 1****Pump Change**

NC #1 on 10/18/2007 - 12:30PM MIRU NC#1, R/U ZHO Try To pmp D/Tbg, 500 Psi, Flush Flow Line W/-15 Bbls Wtr, R/U ZHO To Csg, pmp 65 Bbls Wtr D/Csg @ 250°, Took 1800 Psi To Break Oil Plug Free & Curculate Up Tbg. R/D Unit, Unseat pmp, Unseat pmp, Flsh Tbg W/-30 Bbls Wtr, Seat pmp, Fill Tbg W/-3 Bbls Wtr, P/Test Tbg To 3,000 Psi, Good Test. Unseat pmp, POOH W/-Total Of 1 1/4x22' Polish Rod, 3/4x2'-4'- 3-3/4x6' Ponys, 69-3/4x25' Guided Rods, SWI, 6:30PM C/SDFN. 98 Bbls Total Wtr Lost For Day.

---

**10/20/2007 Day: 2****Pump Change**

NC #1 on 10/19/2007 - 6:30 AM OWU, R/U ZHO, Flsh Tbg W/-30 Bbls Wtr, POOH W/-27 3/4x25' Guided Rods, 68 3/4x25 Slick Rods, 31 3/4x25' Guided Rods, 4 1 1/2x25' Wt Bars & pmp, Flshed Tbg W/-20 Bbls Wtr On Trip Out Due To Oil. R/U S/Line RIH To Fill @ 5606' Depthometer. Flsh Tbg W/-60 Bbls Wtr, P/U Stroke & RIH W/-CDI 2 1/2x1 1/2x12x15 1/2' RHAC & Rod Detail Shown Below, Seat pmp, Hole Standing Full, Stroke Tbg W/-Rig To 800 Psi, Good Test. R/U Unit, R/D Rig, 3:30PM C/SDFD. Leave Unit Down Due To Motor Power Problem, Change Out 52- 3/4 Rod Boxes Thru Slick Rods On TIH, ( Final Report ).

---

**Pertinent Files: Go to File List**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

FEB 11 2010

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, CO 80202

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

RE: Additional Well: Beluga Area Permit  
UIC Permit No. UT20798-00000  
Well ID: UT20798-08675  
Balcron Monument Federal No. 12-17-9-17  
SW NW Sec. 17-T9S-R17E  
Duchesne County, Utah  
API #43-013-31431

Dear Mr. Sundberg:

Newfield Production Company's (Newfield) request to convert the former Green River Formation oil well Balcron Monument Federal No. 12-17-9-17 to an enhanced recovery injection well under the Beluga Area Permit is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization for Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of Beluga Area Permit No. UT20798-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by EPA, and has received written authorization from the Director to begin injection. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depths of 3,500 feet and the top of Wasatch Formation, estimated at 5,880 feet.

**RECEIVED**

**FEB 22 2010**


**DIV. OF OIL, GAS & MINING**

Prior to receiving authorization to inject into Balcron Monument Federal No. 12-17-9-17, EPA requires Newfield submit for review and approval the results of a Part 1 (Internal) mechanical integrity test (MIT), a pore pressure calculation of the injection interval and an EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram. Once these requirements have been approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days during which time a Radioactive Traced Survey (RTS) is required.

The initial Maximum Allowable Injection Pressure (MAIP) for Balcron Monument Federal No. 12-17-9-17 was determined to be 1,275 psig. UIC Area Permit UT20798-00000 also provides the opportunity for the Permittee to request a change in the MAIP based upon results of a Step- Rate Test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or 1-(800)-227-8917 (Ext. 312-6174). Please submit the required data to Attention: Emmett Schmitz at the letterhead address, citing MAIL CODE: 8P-W-GW very prominently.

Sincerely,

  
Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Encl: Authorization for Conversion of An Additional Well  
EPA Form No. 7520-12 (Well Rework Record)  
Proposed Conversion Schematic: Balcron Monument Federal No. 12-17-9-17  
Proposed P&A Schematic: Balcron Monument Federal No. 12-17-9-17  
EPA Form No. 7520-13 (Plugging Record)

cc: Permit Letter:  
Uintah & Ouray Business Committee:  
Curtis Cesspooch, Chairman  
Irene Cuch, Vice-Chairwoman  
Ronald Groves, Councilman  
Steven Cesspooch, Councilman  
Phillip Chimburas, Councilman  
Frances Poowegup, Councilwoman

Daniel Picard, Superintendent  
Uintah & Ouray Indian Agency  
Bureau of Indian Affairs

All Enclosures:

Ferron Secakuku  
Director, Natural Resources  
Ute Indian Tribe

Larry Love  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Gil Hunt  
Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Michael Guinn  
District Manager  
Newfield Production Company  
Myton, Utah



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
1595 WYNKOOP STREET  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

**AUTHORIZATION FOR ADDITIONAL WELL**

**UIC Beluga Area Permit No: UT20798-00000**

Beluga Final UIC Area Permit No. UT20798-00000, effective October 25, 1996, authorizes Class II authorized fluid injection for the purpose of enhanced oil recovery in the Monument Butte Field. November 18, 2009, Newfield Production Company (Newfield) notified the Director concerning the following additional enhanced recovery injection well:

Balcron Monument Federal No. 12-17-9-17  
EPA Well ID Number: UT20798-08675  
SW NW (1980' FNL & 660' FWL) Section 17 – T9S – R17E  
Duchesne County, Utah  
API No. 43-013-31431

Pursuant to 40 CFR §144.33, Beluga Area UIC Permit No. UT20798-00000 authorizes the Permittee to construct and/or convert, or plug and abandon additional enhanced recovery injection wells within the Beluga Area Permit. This well was determined to satisfy additional well criteria required by the Permit.

This well is subject to all provisions of UIC Beluga Area Permit No. UT20798-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the Permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: **FEB 11 2010**

**Stephen S. Tuber**

\* Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

*\* The person holding this title is referred to as the Director throughout the permit and Authorization*

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: Balcron Monument Federal No. 12-17-9-17  
EPA Well ID Number: UT20798-08675

### **Prior to Commencing Injection Operations, the Permittee shall submit the following information for Balcron Monument Federal No. 12-17-9-17:**

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram;
2. Pore pressure calculation of the proposed injection zone;
3. A successful Part I (internal) Mechanical Integrity test (MIT).

Once these records are received and approved by EPA, Director will provide written authorization to inject for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required. The RTS will supplement the cementing records, which show an insufficient interval of 80 percent cement bond index or greater through the Confining Zone. It is intended that a maximum of 180 days of injection will allow the injection zone to achieve the Maximum Allowable Injection Pressure (MAIP) for the purpose of executing the RTS. If 180 days is not sufficient to achieve the MAIP specified in the Permit, an extension of the period of Limited Authorization to Inject may be requested.

A successful RTS will be considered a valid confirmation that cementing records show adequate cement to prevent the upward migration of injection fluids from the injection zone at injection pressures up to the MAIP, until one of the following events occurs, at which time a subsequent RTS is required:

- a) If the submitted RTS is determined to be inconclusive or inadequate by EPA;
- b) If the MAIP of the injection well is exceeded for any reason (*It is a violation to exceed the MAIP without prior EPA approval*);
- c) If new injection perforations are added to the injection well, either through the creation of new perforations or the adjustment of the packer depth to inject into a set of existing perforations that were previously inactive;
- d) If the injection formation is acid-treated, hydraulically stimulated, or stimulated by any other method through the injection well, which may affect the cement integrity of the well, and
- e) If the Director requests that a RTS be run for any reason.

A submitted RTS which indicates the movement of fluid behind casing from the injection zone will result in a requirement to demonstrate Part II Mechanical Integrity using an approved Part II demonstration method such as a Temperature Log, Oxygen Activation Log, or Noise Log at a frequency no less than once every five years following the last successful test..

**Approved Injection Zone:** Injection is approved between the top of the Green River Formation Garden Gulch Member (3,500 feet) to the top of the Wasatch Formation, at an estimated depth of 5,880 feet.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,275 psig, based on the following calculation:

$$\text{MAIP} = [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where}$$

$$\text{FG} = 0.76 \text{ psi/ft.} \quad \text{SG} = 1.015 \quad \text{D} = 3,985 \text{ feet (top perforation depth)}$$

$$\text{MAIP} = 1,275 \text{ psig}$$

UIC Beluga Area Permit No. UT20798-00000 provides the opportunity for the Permittee to request a change of the MAIP based upon the submitted results of a Step-Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). Cement records, including Cement Bond Log, have not satisfactorily demonstrated the presence of adequate Administrative Confining Zone annulus cement to prevent migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8 inch or similar size injection tubing is approved; the packer shall be set at a depth no more than 100 feet above the top perforation.

**Demonstration of Mechanical Integrity:** A successful demonstration of Part I (Internal) Mechanical Integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than once every five years after the last successful test.

Because the cementing records have not satisfactorily demonstrated the presence of adequate cement to prevent migration of injection fluids behind the casing from the injection zone, a RTS is required to confirm the presence of adequate cement. The RTS shall be run within a 180-day Limited Authorization to inject period. If the RTS is not run, or if the RTS does not confirm adequate cement, the Permittee shall demonstrate Part II (External) Mechanical Integrity pursuant to 40 CFR § 146.8(a)(2) using an approved test method such as Temperature Log, Noise Log or Oxygen Activation Log, and the demonstration of Part II Mechanical Integrity shall be repeated no less than every five years after the last successful test.

**Demonstration of Financial Responsibility:** The Applicant has demonstrated financial responsibility by a Financial Statement in the amount of \$59,344 that has been approved by the EPA. The Director may revise the amount required, and may require the Permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.



**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50-foot surface plug (Plug No. 4) shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or Operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 feet above the top perforation with a minimum of 20 feet of cement plug on top of the CIBP.
- PLUG NO. 2: Perforate and squeeze cement up the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Bench from approximately 2,660 feet – 2,830 feet unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 170-foot balanced cement plug inside the 5-1/2 inch casing from approximately 2,660 feet – 2,830 feet.
- PLUG NO. 3: Perforate and squeeze cement up the backside of the 5-1/2 inch casing across the contact between the Uinta Formation and Green River Formation 1,285 feet – 1,405 feet unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the 5-1/2 inch casing from approximately 1,285 feet – 1,405 feet.
- PLUG NO. 4: Set a Class “G” cement plug within the 5-1/2 inch casing to 430 feet and up the 5-1/2 inch X 8-5/8 inch casing annulus to the surface.

## **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: Balcron Monument Federal No. 12-17-9-17  
EPA Well ID Number: UT20798-08675

**Underground Sources of Drinking Water (USDWs):** USDWs in the Boundary Area Permit generally occur within the Uinta Formation. According to “*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*” the base of moderately saline ground water may be found at approximately 308 feet below ground surface in Balcron Monument Federal No. 12-17-9-17.

**http:NRWRT1.NR.STATE.UT.US:** There are no reservoirs, streams, domestic or agricultural water wells within a quarter (1/4) mile of the well.

**Composition of Source, Formation, and Injectate Water: (Total Dissolved Solids [TDS]):**  
TDS of the produced Garden Gulch and Douglas Creek Members water: 10,581 mg/l.

The blended **injectate** (8,822 mg/l) is produced Green River Formation water, water from the Johnson Water District pipeline and/or water from the Green River pipeline, and produced water from Green River Formation wells proximate to the Balcron Monument Federal No. 12-17-9-17.

**Aquifer Exemption:** An Aquifer Exemption is not required because the TDS of the produced water from the proposed injection well is greater than 10,000 mg/l.

**Confining Zone:** The Confining Zone, which directly overlies the Garden Gulch Member of the Green River Formation, contains 193 feet of shale and impervious carbonate between the depths of 3,307 feet and 3,500 feet.

**Injection Zone:** The Injection Zone at this well location is approximately 2,380 feet of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 3,500 feet to the estimated top of the Wasatch Formation at 5,880 feet. All formation tops are based on correlations to Newfield Production Company Federal No. 1-26-8-17 (UT20702-04671) Type Log.

**Well Construction:** The CBL does not show 80% or greater cement bond index in the Confining Zone (3,307 feet – 3,500 feet). Demonstration that well cement is adequate to prevent significant migration of injection fluids behind casing is required.

**Surface Casing:** 8-5/8 inch casing is set at 380 feet in a 12-1/4 inch hole, using 225 sacks Class “G” cement, cemented to the surface.

**Longstring Casing:** 5-1/2 inch casing set at 5,660 feet in a 7-7/8 inch hole with 285 sacks of cement. Total driller depth 5,660 feet. Plugged back total depth (PBDT) is 5,616 feet. EPA calculates top of cement at 3,813 feet. Estimated CBL top of cement is 2,004 feet.

**Perforations:** Top perforation: 3,985 feet (KB). Bottom perforation: 4,954 feet (KB)

**Area-of-Review Wells:** There are three (3) Green River Class II enhanced recovery injection wells in the one-quarter (1/4) mile Area-of-Review (AOR). No well needs Corrective Action.

**Balcron Monument Fed. No. 22-17-9-17** UT20798-04314 SE NW Sec. 17–T9S–R17E.  
An AOR well previously approved as an enhanced recovery injection well by the EPA. Administrative Confining Zone (3,432 feet – 3,495 feet), Alternative Confining Shale “A” (3,614 feet – 3,687 feet) and Alternative Confining Shale “B” (3,722 feet – 3,804 feet all have annulus cement acceptable to the EPA.

**Paiute Federal No. 11-17-9-17** UT20798-04312 NW NW Sec. 17–T9S–R17E

Authorization for Additional Well: UIC Beluga Area Permit UT20798-00000  
Well: Balcron Monument Fed. No. 12-17-9-17 EPA Well ID: UT20798-08675

Paiute Federal No. 11-17-9-17      UT20798-04312      NW NW Sec. 17-T9S-R17E  
80% cement bond within or across Administrative Confining Zone and both  
Alternative Shale Confining Zones.

POMCO No. 5-30-8-17      UT20798-04313      NW SW Sec. 17-T9S-R17E  
80% cement bond within or across Administrative Confining Zone and both  
Alternative Shale Confining Zones.

**Reporting of Noncompliance:**

- (a) Anticipated Noncompliance. The Operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with Permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:** The Operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the Operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The Operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the **NRC website at <http://www.nrc.uscg.mil/index.htm>**.

**Other Noncompliance:** The Operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the Operator becomes aware that he failed to submit any relevant acts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

UT 20798-08675  
Balcron Monument Federal #12-17-9-17

Spud Date: 5/31/94  
Put on Production: 7/5/94  
GI: 5408' KB: 5418'

Proposed Injection  
Wellbore Diagram

Initial Production: BOPID,  
MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 9 jts. (370')  
DEPTH LANDED: 380' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 225 sxs Class "G" cmt, Cemented to surf.

*Green River*

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 137 jts. (5651.17')  
DEPTH LANDED: 5660.17' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 115 sxs Hilit & 170 sxs 10-0 RFL.  
CEMENT TOP AT: 2044'

TUBING

SIZE/GRADE/WT: 2-7/8" / J-55  
NO. OF JOINTS: 159 jts (4922.11')  
TUBING ANCHOR: 4932.11'  
NO. OF JOINTS: 2 jts (63.14')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4998.05'  
NO. OF JOINTS: 1 jts (31.25')  
TOTAL STRING LENGTH: EOT @ 5030.85'

FRAC JOB

4939' - 4947' 6/14/94 by Western w/ 74,400# 16/30  
& 4950' - 4954' w/25,000 gals 2% KCl gel.  
Flush w/ 4914 gal 2% KCl wr.  
ATP-1800 psi, Max-2110#, ATR-  
30 bpm, Max-30.9 bpm, ISIP-  
1620 psi, 5min-1510, 10min-  
1450, 15min-1430 psi.

3985' - 3988' 6/16/94 by Western w/ 57,400# 16/30  
& 3990' - 4000' w/ 15,750 gals 2% KCl gel. ATP-  
2000 psi, Max-2170, ATR-29.5  
bpm, Max-31 bpm, ISIP-1800  
psi, 5min-1550, 10min-1420,  
15min-1410 psi.

1/25/06 Tubing leak. Update rod and tubing details

10-19-07 Pump Change. Updated rod & tubing details

Cement Top @ 2044'

*2742'-2755' Trona*  
*2758'-2762' Mahogany Bench*

*3307'-3500' Confining Zone*  
*3500' Garden Gulch*

*"A" Shale CZ*

*3619'-3646'*

*"B" Shale CZ*

*3716'-3807'*

Packer @ 3935'  
3985'-3988'  
3990'-4000'

PERFORATION RECORD

Date	Interval	Tool	Holes
6/15/94	3985' - 3988'	4 JSPF	12 holes
6/15/94	3990' - 4000'	4 JSPF	40 holes
6/13/94	4939' - 4947'	4 JSPF	32 holes
6/13/94	4950' - 4954'	4 JSPF	16 holes

*70% BOND 4454'-4680'*  
*80% BOND 4522'-4680'*

*4488' Douglas Creek*

4939'-4947'  
4950'-4954'

*5310'-5348' Castle Rock*

PBTD @ 5615'  
SHOE @ 5652'  
TD @ 5660'

*Est Basal Carbonate 5755'*  
*Est Washakie 5880'*

**NEWFIELD**

Balcron Monument Federal #12-17-9-17

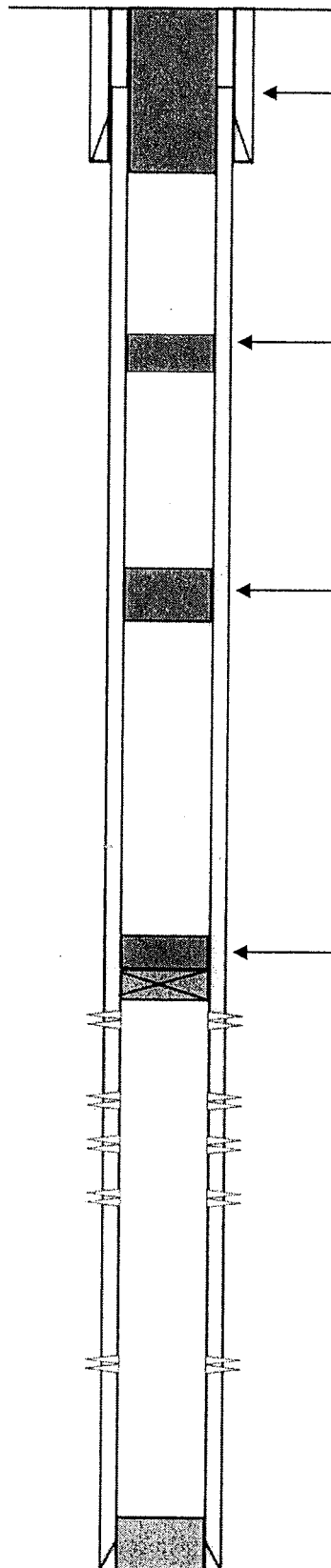
1980' FNL & 660' FWL

SW/NW Section 17-T9S-R17E

Duchesne Co, Utah

API #43-013-31431; Lease #UTU-72106

**Plugging and Abandonment Diagram**  
**Balcron Monument Butte Federal No. 12-17-9-17**



Plug 4: Set a Class "G" cement plug within the 5-1/2 inch casing surface to 430 feet and up the 5-1/2 inch X 8-5/8 inch casing annulus to the surface.

Plug 3: Perforate and squeeze cement up the backside of the casing across the contact between the Uinta Formation and Green River Formation, 1,285 feet - 1,405 feet, unless existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot balanced cement plug inside the casing from approximately 1,285 feet - 1,405 feet.

Plug 2: Perforate and squeeze cement up the backside of the casing across the Trona Zone and the Mahogany Bench from approximately 2,660 feet - 2,830 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 170-foot balanced cement plug inside the casing from approximately 2,660 feet - 2,830 feet.

Plug 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation with a minimum of 20 ft cement plug on top of the CIBP.


 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 WASHINGTON, DC 20460

**PLUGGING RECORD**

NAME AND ADDRESS OF PERMITTEE				NAME AND ADDRESS OF CEMENTING COMPANY			
LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES  <div style="text-align: center;">N</div> <div style="display: flex; justify-content: space-between;"> <span>W</span> <span>E</span> </div> <div style="text-align: center;">S</div>				STATE	COUNTY		PERMIT NUMBER
SURFACE LOCATION DESCRIPTION ____ 1/4 of ____ 1/4 of ____ 1/4 of ____ 1/4 of Section ____ Township ____ Range ____							
LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location ____ ft. from (N/S) ____ Line of quarter section and ____ ft. from (E/W) ____ Line of quarter section							
TYPE OF AUTHORIZATION <input type="radio"/> Individual Permit <input type="radio"/> Area Permit <input type="radio"/> Rule  Number of Wells ____  Lease Name ____						Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole	

CASING AND TUBING RECORD AFTER PLUGGING					METHOD OF EMPLACEMENT OF CEMENT PLUGS	
SIZE	WT(LB/FT)	TO BE PUT IN WELL(FT)	TO BE LEFT IN WELL(FT)	HOLE SIZE		
					<input type="radio"/> CLASS I	<input type="radio"/> The Balance Method
					<input type="radio"/> CLASS II	<input type="radio"/> The Dump Bailer Method
					<input type="radio"/> Brine Disposal	<input type="radio"/> The Two-Plug Method
					<input type="radio"/> Enhanced Recovery	<input type="radio"/> Other
					<input type="radio"/> Hydrocarbon Storage	
					<input type="radio"/> CLASS III	

CEMENTING TO PLUG AND ABANDONED DATA	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type cement or other material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS			
From	To	From	To

Signature of Cementer or Authorized Representative	Signature of EPA Representative
--	---------------------------------

**CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE	DATE SIGNED
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## PLUGGING RECORD

EPA Form 7520-13 (1-84)



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-72106

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL: FOOTAGES AT SURFACE: 1980 FNL 660 FWL COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNW, 17, T9S, R17E STATE: UT

7. UNIT or CA AGREEMENT NAME:  
GMBU

8. WELL NAME and NUMBER:  
BALCRON MON FED 12-17

9. API NUMBER:  
4301331431

10. FIELD AND POOL, OR WILDCAT:  
GREATER MB UNIT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 05/17/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 05/13/10.  
New intervals added: 5394-5397' 3JSPF & 4665-4670' 3 JSPF, 4088-4090'.

On 05/10/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 05/17/2010 the casing was pressured up to 1210 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 50 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20798-08675 API# 43-013-31431

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE

DATE 05/18/2010

(This space for State use only)

**RECEIVED**

**MAY 24 2010**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1980 FNL 660 FWL  
SWNW Section 17 T9S R17E

5. Lease Serial No.

USA UTU-72106

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

BALCRON MON FED 12-17

9. API Well No.

4301331431

10. Field and Pool, or Exploratory Area

GREATER MB UNIT

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Change Status
	<input checked="" type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The subject well has been converted from a producing oil well to an injection well on 05/13/10.  
New intervals added: 5394-5397' 3JSPF & 4665-4670' 3 JSPF, 4088-4090'.

On 05/10/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 05/17/2010 the casing was pressured up to 1210 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 50 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20798-08675 API# 43-013-31431

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Luev Chavez-Naupoto

Signature

Title

Administrative Assistant

Date

05/18/2010

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

**MAY 24 2010**

**DIV. OF OIL, GAS & MINING**

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 5 / 17 / 10  
Test conducted by: James Bird  
Others present: \_\_\_\_\_

Well Name: <u>Monument Federal 12-17-9-17</u>		Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>			
Location: <u>SW NW</u>	Sec: <u>17</u>	T <u>9</u> N <u>10</u> R <u>19</u> E W	County: <u>Duchesne</u> State: <u>UT</u>
Operator: <u>Newfield</u>			
Last MIT: _____		Maximum Allowable Pressure: _____ PSIG	

Is this a regularly scheduled test? ☐ Yes ☒ No  
Initial test for permit? ☒ Yes ☐ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 50 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>				
Initial Pressure	<u>50</u> psig			
End of test pressure	<u>50</u> psig			
<b><del>CASING</del> TUBING ANNULUS PRESSURE</b>				
0 minutes	<u>1210</u> psig			
5 minutes	<u>1210</u> psig			
10 minutes	<u>1210</u> psig			
15 minutes	<u>1210</u> psig			
20 minutes	<u>1210</u> psig			
25 minutes	<u>1210</u> psig			
30 minutes	<u>1210</u> psig			
_____ minutes	_____ psig			
_____ minutes	_____ psig			
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

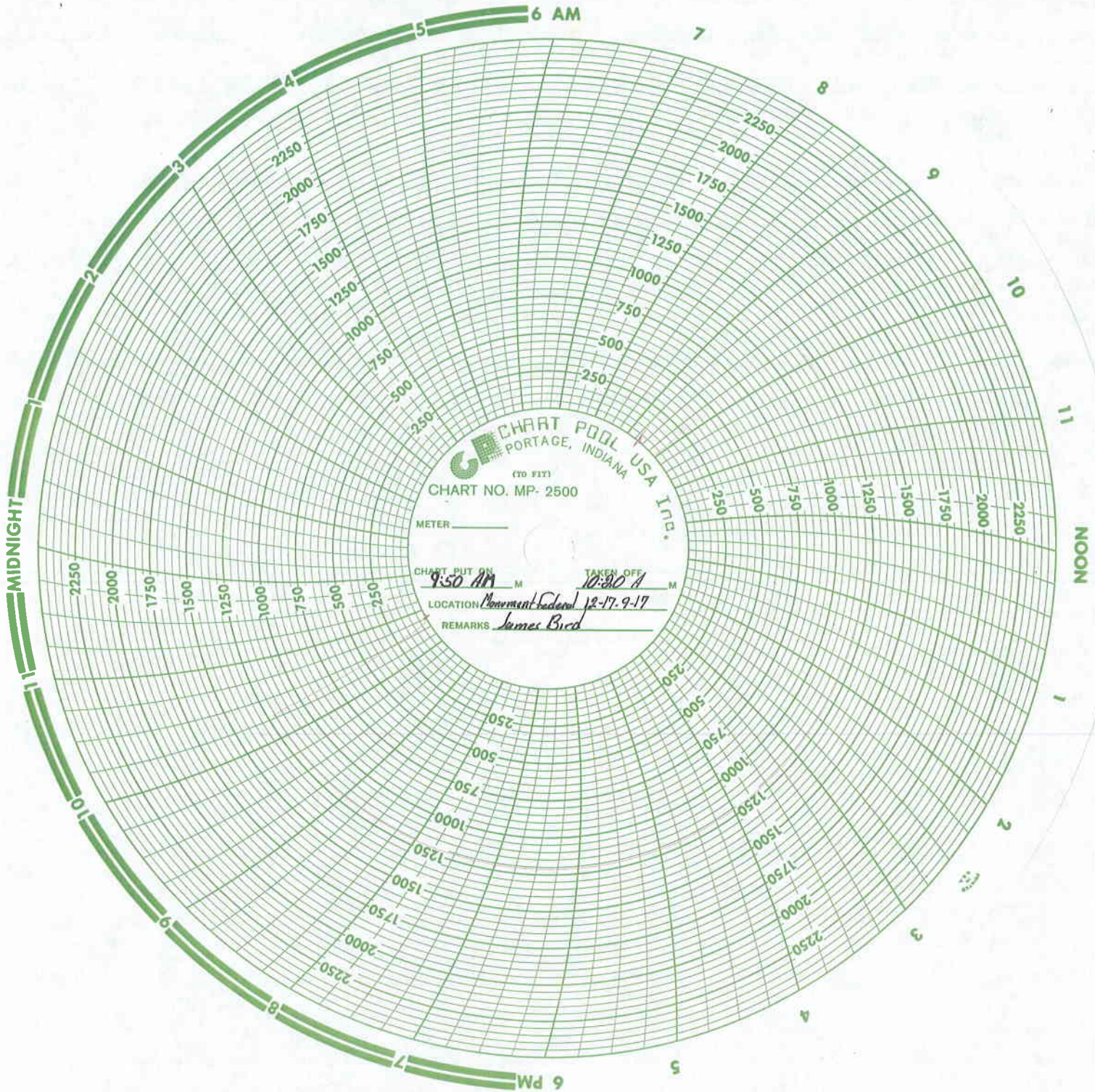
Does the annulus pressure build back up after the test? ☐ Yes ☒ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_





## Daily Activity Report

Format For Sundry

**BLCRN MON 12-17-9-17**

**3/1/2010 To 7/30/2010**

**5/6/2010 Day: 1**

**Conversion**

Nabors #809 on 5/6/2010 - MIRU Nabors rig #809. Flush rods, pressure tested tbg. - MIRU Nabors rig #809. RU HO trk & pump 60 BW @ 250°F. RD pumping unit & unseat pump. Flush tbg & rods W/ 40 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 5 BW & pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. PU polished rod & SIFN. - MIRU Nabors rig #809. RU HO trk & pump 60 BW @ 250°F. RD pumping unit & unseat pump. Flush tbg & rods W/ 40 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 5 BW & pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. PU polished rod & SIFN.

**Daily Cost:** \$0

**Cumulative Cost:** (\$1,976)

**5/7/2010 Day: 2**

**Conversion**

Nabors #809 on 5/7/2010 - LD rod string & pump. Start TOH W/ production tbg. - RU HO trk & flush tbg W/ 30 BW @ 250°F. LD rod string and pump. Re-flushed W/ 20 add'l BW halfway out. ND wellhead & release TA @ 4922'. NU BOP. Talley & PU 11 jts workstring to 5380'--did not tag. LD work string. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. Flushed (circulated) tbg W/ 50 BW after 20 stds pulled. Out W/ 96 jts tbg. SIFN. - RU HO trk & flush tbg W/ 30 BW @ 250°F. LD rod string and pump. Re-flushed W/ 20 add'l BW halfway out. ND wellhead & release TA @ 4922'. NU BOP. Talley & PU 11 jts workstring to 5380'--did not tag. LD work string. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. Flushed (circulated) tbg W/ 50 BW after 20 stds pulled. Out W/ 96 jts tbg. SIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$3,713

**5/8/2010 Day: 3**

**Conversion**

Nabors #809 on 5/8/2010 - Finish TOH W/ production tbg. Perf CP1 & C sds. PU frac tools & tbg. BD new perfs. - RU HO trk & circulate well W/ 70 BW @ 250°F. Con't TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 34 jts & BHA. RU Perforators LLC WLT & packoff. RIH W/ 4 3/4" gauge ring & 2-3 1/8" ported perf guns. Ran gauge ring to 5400'. Perf new intervals as follows: CP1 sds @ 5394-5397' and C sds @ 4665-4670' (3 JSPF, 120°, 11g, 0.36 EH, 16.82 pen.). RD WLT. MU & TIH W/ Weatherford 5 1/2" "TS" RBP, RH, tbg sub, 5 1/2" "HD" pkr & 2 7/8 8rd 6.5# N-80 tbg. Straddle C sds & BD perfs @ 3800 psi, inject 5 BW @ 1/2 BPM @ 2500 psi. Move tools to straddle CP1 sds. BD perfs @ 5100 psi. Inject 5 BW @ 3/4 BPM @ 4200 psi. Release pkr, install frac valve & subs. Leave pkr unset & SIFN. - RU HO trk & circulate well W/ 70 BW @ 250°F. Con't TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 34 jts & BHA. RU Perforators LLC WLT & packoff. RIH W/ 4 3/4" gauge ring & 2-3 1/8" ported perf guns. Ran gauge ring to 5400'. Perf new intervals as follows: CP1 sds @ 5394-5397' and C sds @ 4665-4670' (3 JSPF, 120°, 11g, 0.36 EH, 16.82 pen.). RD WLT. MU & TIH W/ Weatherford 5 1/2" "TS" RBP, RH, tbg sub, 5 1/2" "HD" pkr & 2 7/8 8rd 6.5# N-80 tbg. Straddle C sds & BD perfs @ 3800 psi, inject 5 BW @ 1/2 BPM @ 2500 psi. Move tools to straddle CP1 sds. BD perfs @ 5100 psi. Inject 5 BW @ 3/4 BPM @ 4200 psi. Release pkr, install frac valve & subs. Leave pkr unset & SIFN. **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$15,061

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**5/10/2010 Day: 4****Conversion**

Nabors #809 on 5/10/2010 - RU BJ & frac well. Flow 2 stages back. - Stage #1. CP1 sds. Set pkr @ 5361'. Fill casing w/ 4 bbls. RU BJ Services. Perfs broke down @ 6672 back to 2350 psi w/ 7 bbls @ 3 bpm. Fraced tight till sand hit perfs. Frac w/ 15,000#'s of 20/40 sand in 194 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 5873 @ ave rate of 12 bpm w/ 6 ppg of and. ISIP was 1656 w/ .74FG. Flow well back w/ 26/64 choke for 1 hour. Rec'd 55 bbls of fluid. Release pkr. Circulate tbg clean. TIH w/ tbg to tag 10' of sand. Release RBP @ 5448'. - Stage #1. CP1 sds. Set pkr @ 5361'. Fill casing w/ 4 bbls. RU BJ Services. Perfs broke down @ 6672 back to 2350 psi w/ 7 bbls @ 3 bpm. Fraced tight till sand hit perfs. Frac w/ 15,000#'s of 20/40 sand in 194 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 5873 @ ave rate of 12 bpm w/ 6 ppg of and. ISIP was 1656 w/ .74FG. Flow well back w/ 26/64 choke for 1 hour. Rec'd 55 bbls of fluid. Release pkr. Circulate tbg clean. TIH w/ tbg to tag 10' of sand. Release RBP @ 5448'. - Stage #2. C sds. TOOH w/ tbg. RBP @ 4718'. TOOH w/ tbg. Set pkr @ 4627'. Fill casing w/ 1 bbls. RU BJ Services. Perfs broke down @ 4315 back to 3075 psi w/ 2 bbls @ 3 bpm. Frac w/ 8536#'s of 20/40 sand in 140 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 4750 @ ave rate of 15 bpm w/ 6 ppg of and. ISIP was 2265 w/ .92FG. Flow well back w/ 20/64 choke for 3/4 hour. Rec'd 35 bbls of fluid. Release pkr. Circulate tbg clean. TIH w/ tbg to tag 1' of sand. Release RBP. Flush tbg w/ 40 bbls hot water. TOOH w/ tbg. LD tools. RU Weatherford 5-1/2" x 2-1/2" Arrow Set 1 pkr w/ wire line entry guide, SN, 128 jts tbg. Flush tbg w/ 40 bbls water. Drop SV. Pressure tbg to 3000 psi. SIFN. - Stage #2. C sds. TOOH w/ tbg. RBP @ 4718'. TOOH w/ tbg. Set pkr @ 4627'. Fill casing w/ 1 bbls. RU BJ Services. Perfs broke down @ 4315 back to 3075 psi w/ 2 bbls @ 3 bpm. Frac w/ 8536#'s of 20/40 sand in 140 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 4750 @ ave rate of 15 bpm w/ 6 ppg of and. ISIP was 2265 w/ .92FG. Flow well back w/ 20/64 choke for 3/4 hour. Rec'd 35 bbls of fluid. Release pkr. Circulate tbg clean. TIH w/ tbg to tag 1' of sand. Release RBP. Flush tbg w/ 40 bbls hot water. TOOH w/ tbg. LD tools. RU Weatherford 5-1/2" x 2-1/2" Arrow Set 1 pkr w/ wire line entry guide, SN, 128 jts tbg. Flush tbg w/ 40 bbls water. Drop SV. Pressure tbg to 3000 psi. SIFN.

**Daily Cost:** \$0**Cumulative Cost:** \$47,568

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**5/11/2010 Day: 5****Conversion**

Nabors #809 on 5/11/2010 - Tbg wouldn't test. - - Open well w/ 2000 psi on tbg. Test tbg to 3000 psi w/ no pass - lost 60 psi in 15 min. Fish standin valve. Still won't test. TOOH w/ tbg testing every 20 jts. Replaced 6 collars w/ 60 jts out. TIH w/ tbg after good test. Still finding bad collars. SIFN w/ EOT @ 3970'. - - Open well w/ 2000 psi on tbg. Test tbg to 3000 psi w/ no pass - lost 60 psi in 15 min. Fish standin valve. Still won't test. TOOH w/ tbg testing every 20 jts. Replaced 6 collars w/ 60 jts out. TIH w/ tbg after good test. Still finding bad collars. SIFN w/ EOT @ 3970'. **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$53,226

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**5/12/2010 Day: 6****Conversion**

Nabors #809 on 5/12/2010 - Test tbg. Found 6 bad collars. - Open well w/ 2000 psi on tbg. TOOH w/ 10 sds tbg. Won't test. TOOH w/ 14 stds & tested to 4000 psi. TIH w/ 10 jts. Tested to 3500 psi. TOOH w/ 10 jts. Won't test. TIH w/ 5 jts won't test. TIH w/ tbg 5 jts won't test. TIH w/ 5 jts won't test. Change out 6 collars. Tested to 3500 psi. TIH w/ 10 stds. Tested to



3000 psi. TIH w/ tbg to leave EOT @ 3970'. Test to 3000 psi. SIFN. - Open well w/ 2000 psi on tbg. TOOH w/ 10 sds tbg. Won't test. TOOH w/ 14 stds & tested to 4000 psi. TIH w/ 10 jts. Tested to 3500 psi. TOOH w/ 10 jts. Won't test. TIH w/ 5 jts won't test. TIH w/ tbg 5 jts won't test. TIH w/ 5 jts won't test. Change out 6 collars. Tested to 3500 psi. TIH w/ 10 stds. Tested to 3000 psi. TIH w/ tbg to leave EOT @ 3970'. Test to 3000 psi. SIFN. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$62,928

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**5/13/2010 Day: 7**

**Conversion**

Nabors #809 on 5/13/2010 - Test tbg. Set pkr. Test casing. RDMOSU. - Open well w/ 2000 psi on tbg. Bump up to 3000 psi. Test is good. Fish SV. RD BOP's. Pump 65 bbls of Pkr fluid. Set Arrow Set 1 PKR @ 3951' w/ 16,000#'s tension w/ PKR @ 3962', CE @ 3965', EOT @ 3969'. Test casing to 1400 psi for 1/2 hour test. RDMOSU. Well ready for MIT. - Open well w/ 2000 psi on tbg. Bump up to 3000 psi. Test is good. Fish SV. RD BOP's. Pump 65 bbls of Pkr fluid. Set Arrow Set 1 PKR @ 3951' w/ 16,000#'s tension w/ PKR @ 3962', CE @ 3965', EOT @ 3969'. Test casing to 1400 psi for 1/2 hour test. RDMOSU. Well ready for MIT. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$67,904

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**5/18/2010 Day: 8**

**Conversion**

Rigless on 5/18/2010 - MIT on Well - On 5/10/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well (Balcron Monument 12-17-9-17). On 5/17/2010 the csg was pressured up to 1210 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 50 psig during the test. There was not an EPA representative available to witness the test. Final Report EPA# UT20798-08675 API# 43-013-31431 - On 5/10/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well (Balcron Monument 12-17-9-17). On 5/17/2010 the csg was pressured up to 1210 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 50 psig during the test. There was not an EPA representative available to witness the test. Final Report EPA# UT20798-08675 API# 43-013-31431 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$93,224

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**Pertinent Files: Go to File List**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

JUN 04 2010

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Michael Guinn  
District Manager  
Newfield Production Company  
Route 3 – Box 3630  
Myton, UT 84052

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

RE: Underground Injection Control (UIC)  
Limited Authorization to Inject  
EPA UIC Permit UT20798-08675  
Well: Balcron Monument Fed. 12-17-9-17  
SWNW Sec. 17-T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-31431

Dear Mr. Guinn:

The Environmental Protection Agency Region 8 (EPA) has received Newfield Production Company's (Newfield) February 2, 2010, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram, and calculated pore pressure were reviewed and approved by EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20798-08675.


As of the date of this letter, Newfield is authorized to commence injection into the Balcron Monument Federal 12-17-9-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,275 psig for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required. If Newfield seeks a higher MAIP than 1,275 psig, it may be advantageous to run a step rate test prior to conducting the RTS because a RTS conducted at the higher MAIP will be required. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

Please remember that it is Newfield's responsibility to be aware of and to comply with all conditions of Permit UT20798-08675.



If you have questions regarding the above action, please call Jason Deardorff at 303-312-6583 or 1-800-227-8917, ext. 312-6583. The RTS log with interpretation should be mailed to Jason Deardorff at the letterhead address, citing mail code 8P-W-GW.

Sincerely,

  
for Stephen S. Tuber

Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:  
Curtis Cesspooch, Chairman  
Ronald Groves, Councilman  
Irene Cuch, Vice-Chairwoman  
Phillip Chimburas, Councilman  
Frances Poowegup, Councilwoman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Ferron Secakuku  
Director, Natural Resources  
Ute Indian Tribe

Larry Love  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Gil Hunt  
Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

JUN 09 2010

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Michael Guinn  
District Manager  
Newfield Production Company  
Route 3 – Box 3630  
Myton, UT 84052

RE: Underground Injection Control (UIC)  
Limited Authorization to Inject  
EPA UIC Permit UT20798-08675  
Well: Balcron Monument Federal 12-17-9-17  
SWNW Sec. 17-T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-31431

Dear Mr. Guinn:

The Environmental Protection Agency Region 8 (EPA) has received Newfield Production Company's (Newfield) May 18, 2010, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram, and calculated pore pressure were reviewed and approved by EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20798-08675.

As of the date of this letter, Newfield is authorized to commence injection into the Balcron Monument Federal 12-17-9-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,275 psig for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required. If Newfield seeks a higher MAIP than 1,275 psig, it may be advantageous to run a step rate test prior to conducting the RTS because a RTS conducted at the higher MAIP will be required. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

Please remember that it is Newfield's responsibility to be aware of and to comply with all conditions of Permit UT20798-08675.

RECEIVED  
JUN 17 2010  
DIV. OF OIL, GAS & MINING

If you have questions regarding the above action, please call Jason Deardorff at 303-312-6583 or 1-800-227-8917, ext. 312-6583. The RTS log with interpretation should be mailed to Mr. Deardorff at the letterhead address, citing mail code 8P-W-GW.

Sincerely,



*for* Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:  
Curtis Cesspooch, Chairman  
Ronald Groves, Councilman  
Irene Cuch, Vice-Chairwoman  
Phillip Chimburas, Councilman  
Frances Poowegup, Councilwoman

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Ute Indian Tribe

Gil Hunt  
Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-72106
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: GMBU
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 1980 FNL 660 FWL		8. WELL NAME and NUMBER: BALCRON MON FED 12-17
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNW, 17, T9S, R17E		9. API NUMBER: 4301331431
		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
		COUNTY: DUCHESNE
		STATE: UT

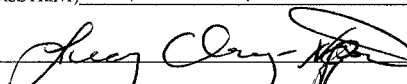
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will 06/17/2010	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Put on Injection
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above reference well was put on injection at 10:45 AM on 06-17-2010.

EPA # UT20798-08675 API # 43-013-31431

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	TITLE Administrative Assistant
SIGNATURE 	DATE 06/17/2010

(This space for State use only)

RECEIVED  
JUN 21 2010  
DIV. OF OIL, GAS & MINING



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
Denver, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

OCT 15 2010

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Michael Guinn  
District Manager  
Newfield Production Company  
Route 3-Box 3630  
Myton, UT 84502

Accepted by the  
Utah Department of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

RE: Underground Injection Control (UIC)  
Authorization to Continue Injection  
EPA UIC Permit UT20798-08675  
Well: Balcron Monument  
Federal 12-17-9-17  
SWNW Sec. 17-9-R17E  
Duchesne County, UT  
API No.: 43-013-31431

Dear Mr. Guinn:

The U.S. Environmental Protection Agency (EPA), Region 8, received the results of the October 5, 2010, Radioactive Tracer Survey (RTS) for the Balcron Monument Federal 12-17-9-17 well. EPA determined the test demonstrates the presence of adequate cement to prevent the upward migration of injection fluids from the injection zone at the Maximum Allowable Injection Pressure (MAIP) of 1,275 psig.

As of the date of this letter, EPA hereby authorizes continued injection into the Balcron Monument Federal 12-17-9-17 well under the terms and conditions of UIC Permit UT20798-08675.

You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a Step Rate Test (SRT) that measures the formation parting pressure and determines the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director in order to inject at pressures greater than the permitted MAIP during any test. A current copy of EPA guidelines for running and interpreting SRTs will be sent upon request. Should the SRT result in approval of a higher MAIP, a subsequent RTS conducted at the higher MAIP is required.

**RECEIVED**  
**OCT 27 2010**  
DIV. OF OIL, GAS & MINING

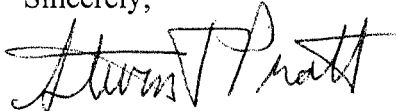
As of this approval, responsibility for permit compliance and enforcement is transferred to EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Nathan Wiser at the following address, referencing the well name and UIC Permit number on all correspondence:

Mr. Nathan Wiser  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, CO 80202-1129

Or, you may reach Mr. Wiser by telephone at 303-312-6211, or 1 800-227-8927, ext. 312-6211. Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT20798-08675.

If you have questions regarding the above action, please call Emmett Schmitz at 303-312-6174 or 1-800-227-8917, ext. 312-6174.

Sincerely,



for

Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Frances Poowegup, Vice-Chairwoman  
Curtis Cesspooch, Councilman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Irene Cuch, Councilwoman  
Richard Jenks, Jr., Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg  
Regulatory Analyst  
Newfield Production Company

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-72106

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GMBU

8. WELL NAME and NUMBER:  
BALCRON MON FED 12-17

9. API NUMBER:  
4301331431

10. FIELD AND POOL, OR WILDCAT:  
GREATER MB UNIT

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 1980 FNL 660 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNW, 17, T9S, R17E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  12/08/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Step Rate Test	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on December 8, 2010. Results from the test indicate that the fracture gradient is 0.822 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1275 psi to 1520 psi.

EPA: UT20798-08675 API: 43-013-31431

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE

DATE 12/29/2010

(This space for State use only)

**RECEIVED**

**JAN 06 2011**

**DIV. OF OIL, GAS & MINING**



## Step Rate Test (SRT) Analysis

Date: 12/09/2010

Operator:

Newfield Production Company

Well:

Balcron Monumnet Federal 12-17-9-17

Permit #:

UT20798-08675

**Enter the following data :**

Specific Gravity (sg) of injectate =	<u>1.015</u>	g/cc	
Depth to top perforation (D) =	<u>3985</u>	feet	3985
Top of permitted injection zone depth (blank=use top perforation to calculate fg) =		feet	
Estimated Formation Parting Pressure (Pfp) from SRT chart =	<u>1525</u>	psi	
Instantaneous Shut In Pressure (ISIP) from SRT =	<u>1552</u>	psi	1525
Bottom Hole Parting Pressure (Pbhp) from downhole pressure recorder =		psi	no downhole

### Part One - Calculation of Fracture Gradient (fg)

Calculated Fracture Gradient = 0.822 psi/ft.

where:  $fg = Pbhp / D$  (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1552

D = depth used = 3985

Pbhp used = 3276

Calculated Bottom Hole Parting Pressure (Pbhp) = 3276 psi

3276.388

to calculate Bottom Hole Parting Pressure (Pbhp) = Formation Fracture Pressure (ISIP or Pfp) + (0.433 \* SG \* D)

(Uses lesser of ISIP or Pfp) Value used = 1525

### Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

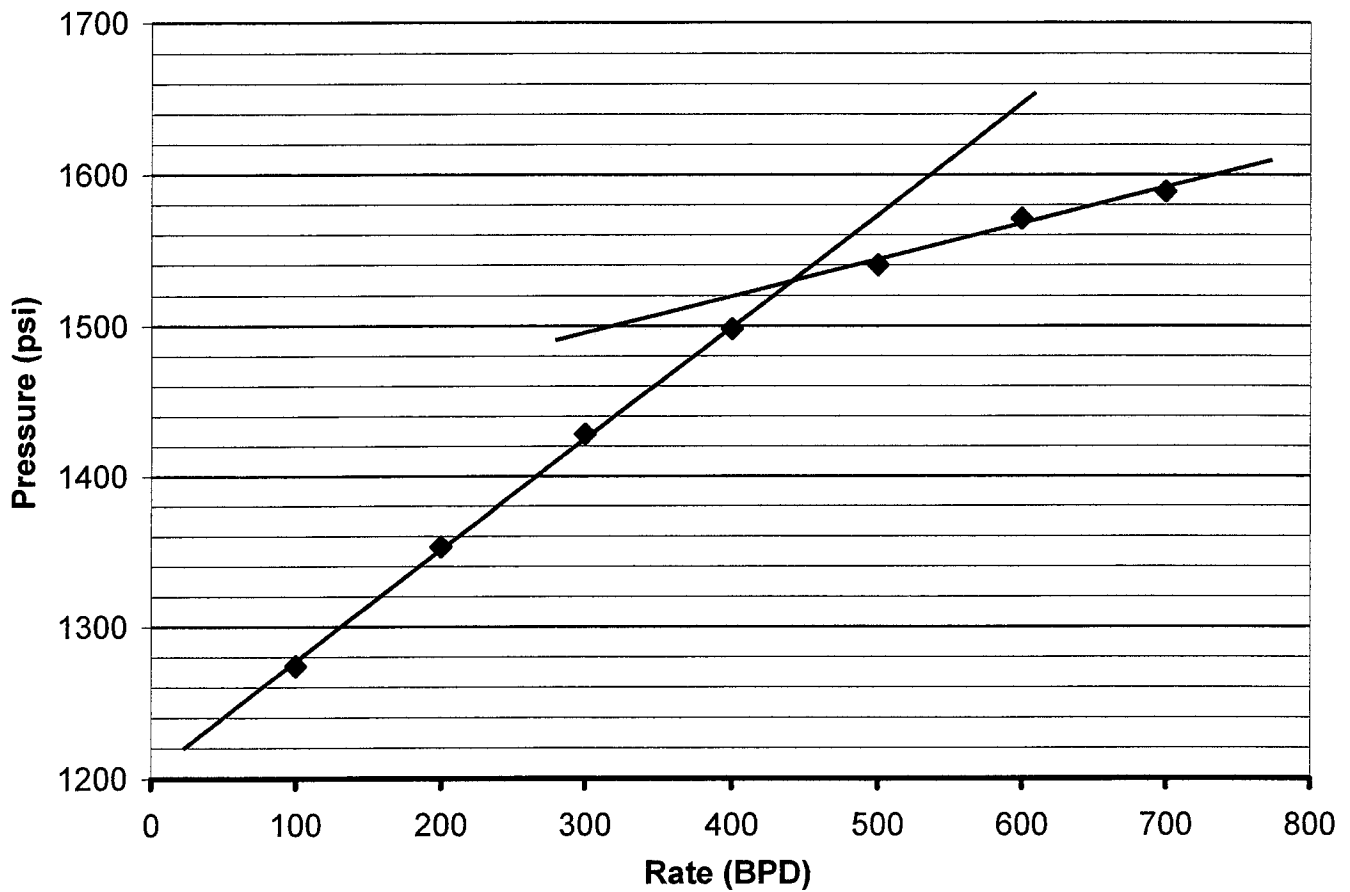
Maximum Allowable Injection Pressure (MAIP) = 1520 psig

D = depth used = 3985

MAIP =  $fg \cdot (0.433 \cdot SG) \cdot D = 1524.282$

(rounded down to nearest 5 psig)

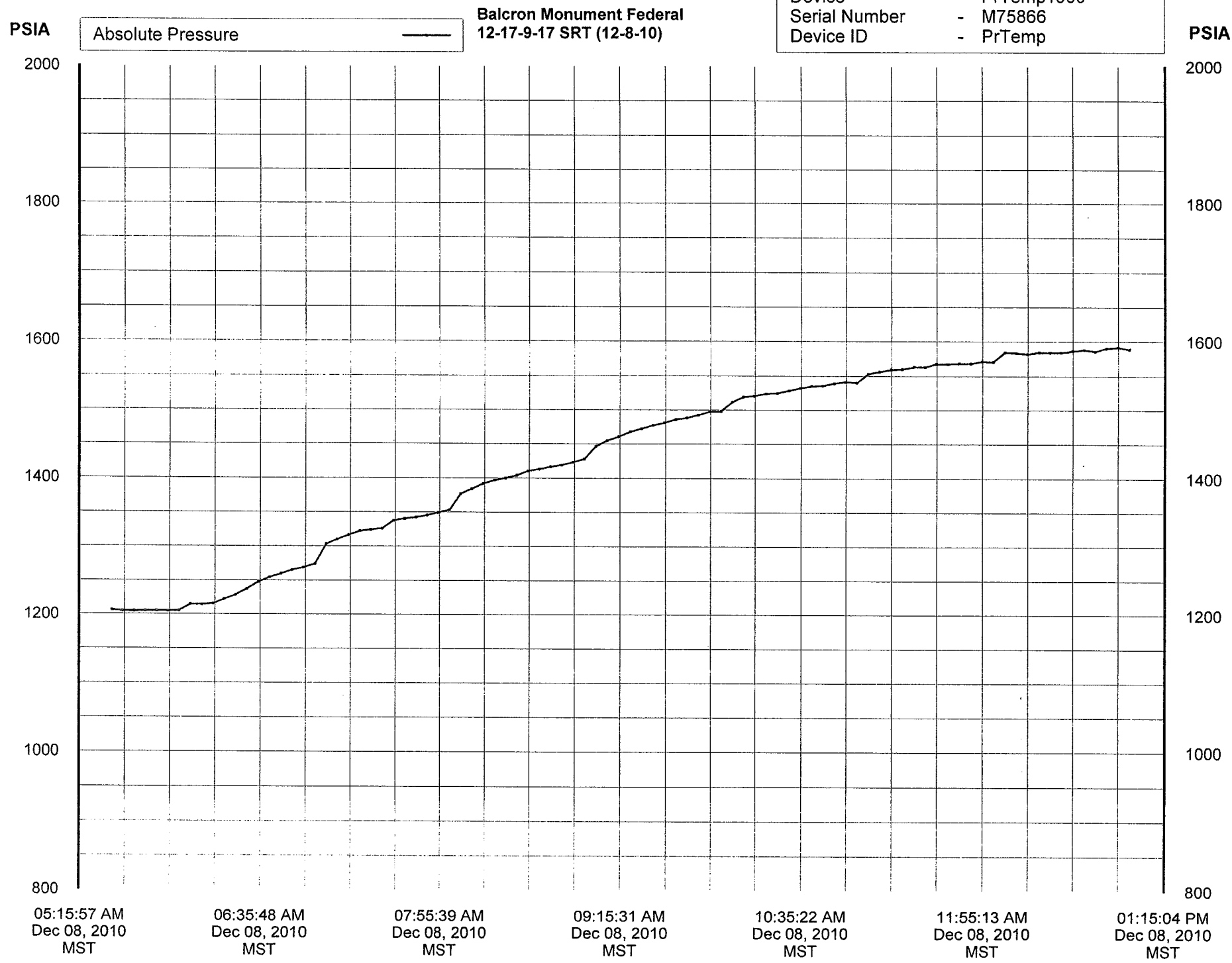
**Balcron Monument Federal 12-17-9-17**  
**Greater Monument Butte Unit**  
**Step Rate Test**  
**December 8, 2010**



**Start Pressure:** 1205 psi  
**Instantaneous Shut In Pressure (ISIP):** 1552 psi  
**Top Perforation:** 3985 feet  
**Fracture pressure (Pfp):** 1525 psi  
**FG:** 0.822 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	100	1274
2	200	1353
3	300	1428
4	400	1498
5	500	1540
6	600	1571
7	700	1589

Device - PrTemp1000  
Serial Number - M75866  
Device ID - PrTemp

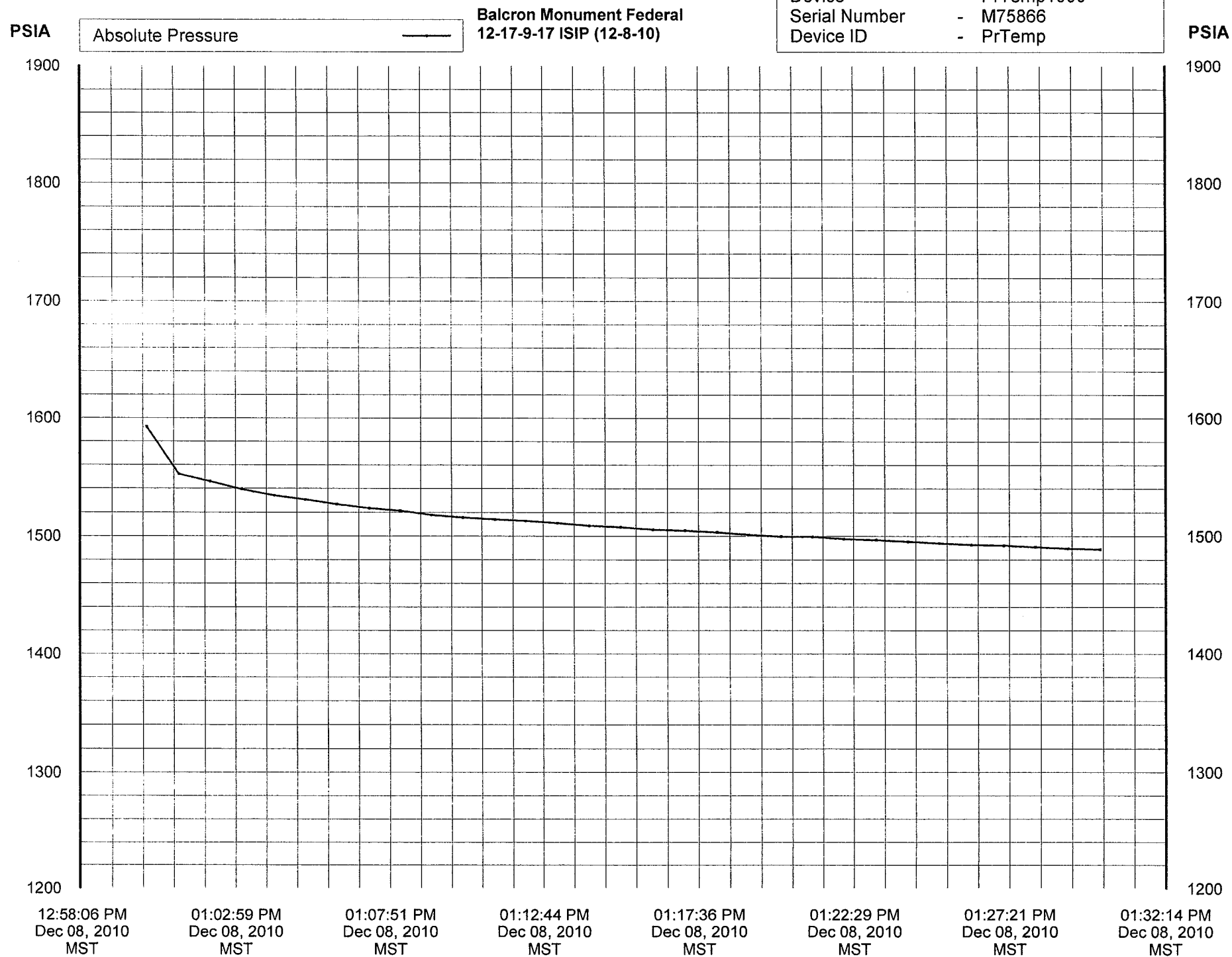


Report Name: PrTemp1000 Data Table  
 Report Date: Dec 09, 2010 08:34:42 AM MST  
 File Name: C:\Program Files\PTC® Instruments 2.00\Balcron Monument Federal 12-17-9-17 SRT (12-8-10).csv  
 Title: Balcron Monument Federal 12-17-9-17 SRT (12-8-10)  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Dec 08, 2010 05:30:00 AM MST  
 Data End Date: Dec 08, 2010 12:59:59 PM MST  
 Reading Rate: 2 Seconds  
 Readings: 1 to 91 of 91  
 Last Calibration Date: May 22, 2009  
 Next Calibration Date: May 22, 2010

<u>Reading</u>	<u>Date and Time (MST)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Dec 08, 2010 05:30:00 AM	1205.600	PSIA
2	Dec 08, 2010 05:34:59 AM	1204.400	PSIA
3	Dec 08, 2010 05:40:00 AM	1204.000	PSIA
4	Dec 08, 2010 05:44:59 AM	1204.400	PSIA
5	Dec 08, 2010 05:50:01 AM	1204.800	PSIA
6	Dec 08, 2010 05:55:00 AM	1204.600	PSIA
7	Dec 08, 2010 06:00:00 AM	1204.800	PSIA
8	Dec 08, 2010 06:04:59 AM	1214.400	PSIA
9	Dec 08, 2010 06:10:00 AM	1214.000	PSIA
10	Dec 08, 2010 06:15:00 AM	1215.400	PSIA
11	Dec 08, 2010 06:19:59 AM	1222.000	PSIA
12	Dec 08, 2010 06:25:00 AM	1228.400	PSIA
13	Dec 08, 2010 06:30:00 AM	1237.200	PSIA
14	Dec 08, 2010 06:35:00 AM	1247.600	PSIA
15	Dec 08, 2010 06:40:00 AM	1254.600	PSIA
16	Dec 08, 2010 06:45:01 AM	1259.800	PSIA
17	Dec 08, 2010 06:49:59 AM	1265.400	PSIA
18	Dec 08, 2010 06:55:01 AM	1269.400	PSIA
19	Dec 08, 2010 06:59:59 AM	1274.200	PSIA
20	Dec 08, 2010 07:05:00 AM	1303.200	PSIA
21	Dec 08, 2010 07:09:59 AM	1310.200	PSIA
22	Dec 08, 2010 07:14:59 AM	1316.600	PSIA
23	Dec 08, 2010 07:20:00 AM	1322.200	PSIA
24	Dec 08, 2010 07:24:59 AM	1324.200	PSIA
25	Dec 08, 2010 07:30:00 AM	1326.000	PSIA
26	Dec 08, 2010 07:34:59 AM	1337.600	PSIA
27	Dec 08, 2010 07:40:00 AM	1340.400	PSIA
28	Dec 08, 2010 07:44:59 AM	1342.400	PSIA
29	Dec 08, 2010 07:49:59 AM	1345.400	PSIA
30	Dec 08, 2010 07:54:59 AM	1349.200	PSIA
31	Dec 08, 2010 07:59:59 AM	1353.000	PSIA
32	Dec 08, 2010 08:05:00 AM	1376.800	PSIA
33	Dec 08, 2010 08:09:59 AM	1384.200	PSIA
34	Dec 08, 2010 08:15:00 AM	1391.800	PSIA
35	Dec 08, 2010 08:20:00 AM	1397.000	PSIA
36	Dec 08, 2010 08:25:00 AM	1399.800	PSIA
37	Dec 08, 2010 08:30:00 AM	1404.000	PSIA
38	Dec 08, 2010 08:34:59 AM	1410.200	PSIA
39	Dec 08, 2010 08:40:00 AM	1413.200	PSIA
40	Dec 08, 2010 08:45:00 AM	1416.400	PSIA
41	Dec 08, 2010 08:50:01 AM	1419.200	PSIA
42	Dec 08, 2010 08:54:59 AM	1423.200	PSIA
43	Dec 08, 2010 09:00:01 AM	1428.000	PSIA
44	Dec 08, 2010 09:05:00 AM	1446.200	PSIA
45	Dec 08, 2010 09:10:00 AM	1454.800	PSIA
46	Dec 08, 2010 09:14:59 AM	1460.600	PSIA
47	Dec 08, 2010 09:19:59 AM	1467.600	PSIA
48	Dec 08, 2010 09:25:00 AM	1472.400	PSIA
49	Dec 08, 2010 09:29:59 AM	1477.400	PSIA
50	Dec 08, 2010 09:35:00 AM	1481.000	PSIA
51	Dec 08, 2010 09:39:59 AM	1485.800	PSIA
52	Dec 08, 2010 09:45:00 AM	1488.400	PSIA
53	Dec 08, 2010 09:49:59 AM	1492.600	PSIA
54	Dec 08, 2010 09:55:00 AM	1497.400	PSIA
55	Dec 08, 2010 10:00:00 AM	1497.800	PSIA
56	Dec 08, 2010 10:04:59 AM	1511.400	PSIA
57	Dec 08, 2010 10:09:59 AM	1519.000	PSIA
58	Dec 08, 2010 10:14:59 AM	1520.400	PSIA
59	Dec 08, 2010 10:20:00 AM	1523.800	PSIA

60	Dec 08, 2010 10:24:59 AM	1524.800	PSIA
61	Dec 08, 2010 10:30:01 AM	1528.400	PSIA
62	Dec 08, 2010 10:35:00 AM	1532.200	PSIA
63	Dec 08, 2010 10:40:00 AM	1535.000	PSIA
64	Dec 08, 2010 10:44:59 AM	1535.800	PSIA
65	Dec 08, 2010 10:49:59 AM	1539.000	PSIA
66	Dec 08, 2010 10:54:59 AM	1541.200	PSIA
67	Dec 08, 2010 10:59:59 AM	1540.200	PSIA
68	Dec 08, 2010 11:05:00 AM	1553.000	PSIA
69	Dec 08, 2010 11:09:59 AM	1556.200	PSIA
70	Dec 08, 2010 11:15:00 AM	1559.200	PSIA
71	Dec 08, 2010 11:20:00 AM	1559.800	PSIA
72	Dec 08, 2010 11:25:03 AM	1563.200	PSIA
73	Dec 08, 2010 11:30:00 AM	1563.000	PSIA
74	Dec 08, 2010 11:34:59 AM	1567.600	PSIA
75	Dec 08, 2010 11:39:59 AM	1567.200	PSIA
76	Dec 08, 2010 11:44:59 AM	1568.400	PSIA
77	Dec 08, 2010 11:50:00 AM	1568.000	PSIA
78	Dec 08, 2010 11:55:00 AM	1571.400	PSIA
79	Dec 08, 2010 12:00:00 PM	1570.600	PSIA
80	Dec 08, 2010 12:04:59 PM	1584.400	PSIA
81	Dec 08, 2010 12:10:00 PM	1583.600	PSIA
82	Dec 08, 2010 12:14:59 PM	1582.200	PSIA
83	Dec 08, 2010 12:19:59 PM	1584.600	PSIA
84	Dec 08, 2010 12:24:59 PM	1584.200	PSIA
85	Dec 08, 2010 12:30:00 PM	1584.400	PSIA
86	Dec 08, 2010 12:35:00 PM	1586.400	PSIA
87	Dec 08, 2010 12:39:59 PM	1588.200	PSIA
88	Dec 08, 2010 12:45:00 PM	1585.800	PSIA
89	Dec 08, 2010 12:49:59 PM	1590.600	PSIA
90	Dec 08, 2010 12:55:00 PM	1592.000	PSIA
91	Dec 08, 2010 12:59:59 PM	1589.000	PSIA

Device - PrTemp1000  
Serial Number - M75866  
Device ID - PrTemp



Report Name: PrTemp1000 Data Table  
 Report Date: Dec 09, 2010 08:34:35 AM MST  
 File Name: C:\Program Files\PTC® Instruments 2.00\Balcron Monument Federal 12-17-9-17  
 ISIP (12-8-10).csv  
 Title: Balcron Monument Federal 12-17-9-17 ISIP (12-8-10)  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Dec 08, 2010 01:00:10 PM MST  
 Data End Date: Dec 08, 2010 01:30:12 PM MST  
 Reading Rate: 2 Seconds  
 Readings: 1 to 31 of 31  
 Last Calibration Date: May 22, 2009  
 Next Calibration Date: May 22, 2010

<u>Reading</u>	<u>Date and Time (MST)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Dec 08, 2010 01:00:10 PM	1592.400	PSIA
2	Dec 08, 2010 01:01:11 PM	1552.200	PSIA
3	Dec 08, 2010 01:02:10 PM	1546.000	PSIA
4	Dec 08, 2010 01:03:10 PM	1539.400	PSIA
5	Dec 08, 2010 01:04:12 PM	1534.200	PSIA
6	Dec 08, 2010 01:05:11 PM	1530.800	PSIA
7	Dec 08, 2010 01:06:11 PM	1526.800	PSIA
8	Dec 08, 2010 01:07:12 PM	1523.400	PSIA
9	Dec 08, 2010 01:08:11 PM	1521.400	PSIA
10	Dec 08, 2010 01:09:10 PM	1517.800	PSIA
11	Dec 08, 2010 01:10:10 PM	1515.600	PSIA
12	Dec 08, 2010 01:11:11 PM	1514.000	PSIA
13	Dec 08, 2010 01:12:10 PM	1512.800	PSIA
14	Dec 08, 2010 01:13:10 PM	1511.000	PSIA
15	Dec 08, 2010 01:14:11 PM	1508.800	PSIA
16	Dec 08, 2010 01:15:10 PM	1507.600	PSIA
17	Dec 08, 2010 01:16:11 PM	1505.400	PSIA
18	Dec 08, 2010 01:17:11 PM	1504.600	PSIA
19	Dec 08, 2010 01:18:11 PM	1503.200	PSIA
20	Dec 08, 2010 01:19:10 PM	1501.200	PSIA
21	Dec 08, 2010 01:20:11 PM	1499.600	PSIA
22	Dec 08, 2010 01:21:10 PM	1499.400	PSIA
23	Dec 08, 2010 01:22:10 PM	1497.600	PSIA
24	Dec 08, 2010 01:23:11 PM	1496.800	PSIA
25	Dec 08, 2010 01:24:11 PM	1495.400	PSIA
26	Dec 08, 2010 01:25:10 PM	1494.000	PSIA
27	Dec 08, 2010 01:26:10 PM	1492.800	PSIA
28	Dec 08, 2010 01:27:11 PM	1492.200	PSIA
29	Dec 08, 2010 01:28:10 PM	1490.800	PSIA
30	Dec 08, 2010 01:29:11 PM	1489.600	PSIA
31	Dec 08, 2010 01:30:12 PM	1488.800	PSIA

# **Balcron Monument Federal 13-17-9-17 Rate Sheet (12-8-10)**

<b>Step # 1</b>	Time:	6:05	6:10	6:15	6:20	6:25	6:30
	Rate:	100.8	100.8	100.8	100.8	100.8	100.8
	Time:	6:35	6:40	6:45	6:50	6:55	7:00
	Rate:	100.7	100.7	100.6	100.6	100.6	100.6
<b>Step # 2</b>	Time:	7:05	7:10	7:15	7:20	7:25	7:30
	Rate:	200.4	200.4	200.3	200.3	200.3	200.3
	Time:	7:35	7:40	7:45	7:50	7:55	8:00
	Rate:	200.3	200.2	200.2	200.2	200.2	200.2
<b>Step # 3</b>	Time:	8:05	8:10	8:15	8:20	8:25	8:30
	Rate:	300.5	300.5	300.5	300.5	300.4	300.4
	Time:	8:35	8:40	8:45	8:50	8:55	9:00
	Rate:	300.4	300.4	300.4	300.3	300.3	300.3
<b>Step # 4</b>	Time:	9:05	9:10	9:15	9:20	9:25	9:30
	Rate:	400.6	400.6	400.6	400.6	400.6	400.5
	Time:	9:35	9:40	9:45	9:50	9:55	10:00
	Rate:	400.5	400.5	400.4	400.4	400.4	400.4
<b>Step # 5</b>	Time:	10:05	10:10	10:15	10:20	10:25	10:30
	Rate:	500.3	500.3	500.2	500.2	500.2	500.2
	Time:	10:35	10:40	10:45	10:50	10:55	11:00
	Rate:	500.2	500.1	500.1	500.1	500	500
<b>Step # 6</b>	Time:	11:05	11:10	11:15	11:20	11:25	11:30
	Rate:	600.5	600.5	600.5	600.4	600.4	600.4
	Time:	11:35	11:40	11:45	11:50	11:55	12:00
	Rate:	600.3	600.3	600.2	600.2	600.2	600.2
<b>Step # 7</b>	Time:	12:05	12:10	12:15	12:20	12:25	12:30
	Rate:	700.5	700.5	700.5	700.5	700.4	700.4
	Time:	12:35	12:40	12:45	21:50	12:55	1:00
	Rate:	700.4	700.4	700.4	700.2	700.2	700.2
	Time:						
	Rate:						
	Time:						
	Rate:						



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-72106
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> BALCRON MON FED 12-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1980 FNL 0660 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 17 Township: 09.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013314310000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/15/2015	<input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	OTHER: 5 YR MIT	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. 5 YR MIT performed on the above listed well. On 04/15/2015 the casing was pressured up to 1196 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 1593 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-08675		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> April 23, 2015		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/17/2015	

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 4/15/15Test conducted by: PETE MONTAGUE

Others present: \_\_\_\_\_

Well Name: BALCRON MONUMENT FEDERAL Type: ER SWD Status: AC TA UC  
Field: MONUMENT BUTTE  
Location: 12 Sec: 17 T 9 N 15 R 17 E W County: DUCHESSNE State: LA  
Operator: NEWFIELD  
Last MIT: 1 1 Maximum Allowable Pressure: 1716 PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☒ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0/1189 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING</b>	<b>PRESSURE</b>		
Initial Pressure	<u>1594</u> psig	psig	psig
End of test pressure	<u>1593</u> psig	psig	psig
<b>CASING / TUBING</b>	<b>ANNULUS PRESSURE</b>		
0 minutes	<u>1189</u> psig	psig	psig
5 minutes	<u>1192</u> psig	psig	psig
10 minutes	<u>1193</u> psig	psig	psig
15 minutes	<u>1193</u> psig	psig	psig
20 minutes	<u>1194</u> psig	psig	psig
25 minutes	<u>1195</u> psig	psig	psig
30 minutes	<u>1196</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

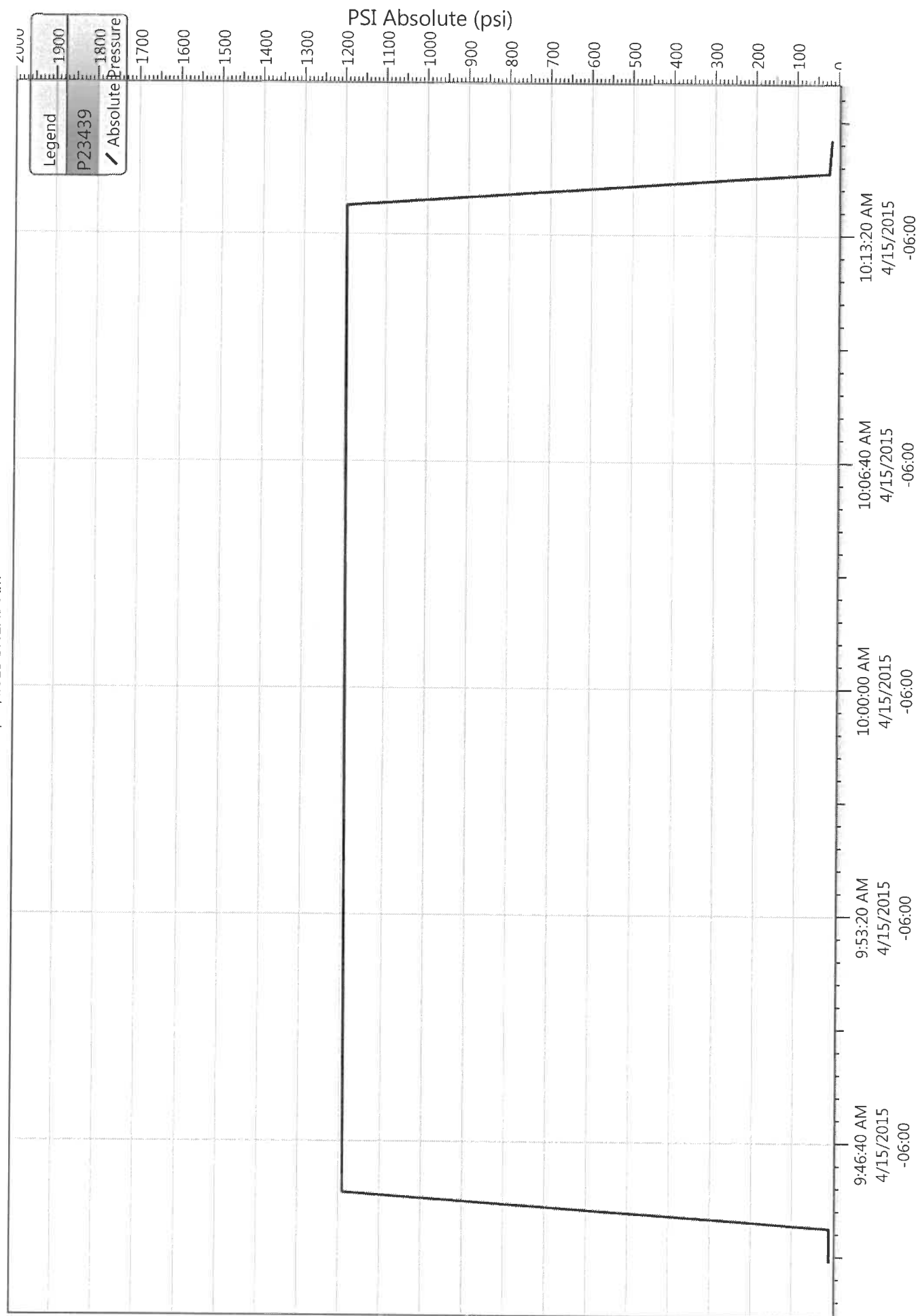
## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_

Balcron Monument Federal 12-17-9-17, 5-Year MIT, (4-15-15)

4/15/2015 9:41:49 AM



# Balcron Monument Federal 12-17-9-17

Spud Date: 5/31/94  
Put on Production: 7/5/94  
GL: 5408' KB: 5418'

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 9 jts. (370')  
DEPTH LANDED: 380' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 225 sxs Class "G" cmt, Cemented to surf.

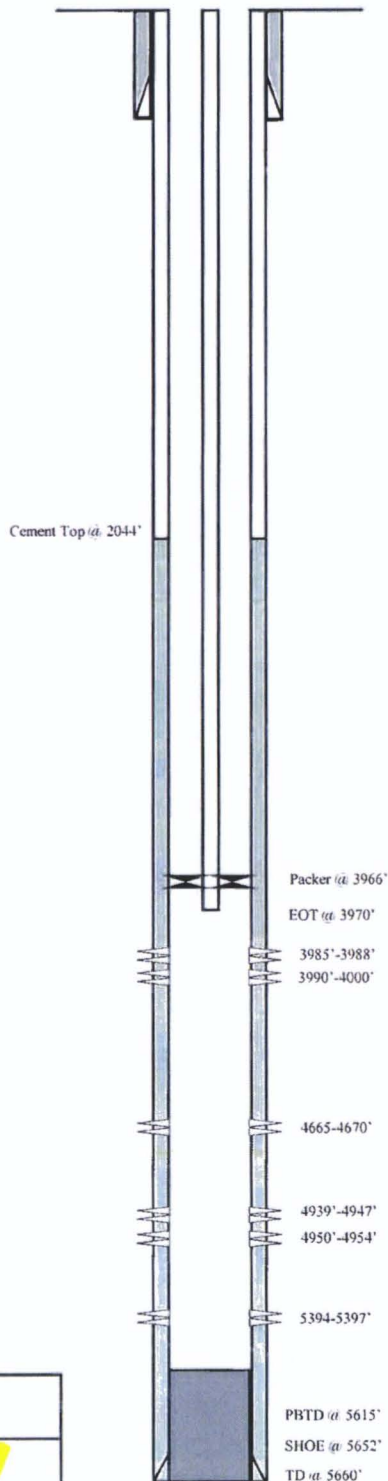
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 137jts. (5651.17')  
DEPTH LANDED: 5660.17' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 115 sxs Hiilift & 170 sxs 10-0 RFL.  
CEMENT TOP AT: 2044'

## TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 128 jts (3951.4')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 3961.4'  
CE @ 3965.79'  
TOTAL STRING LENGTH: EOT @ 3970' w/ 10' KB

## Injection Wellbore Diagram



## FRAC JOB

4939' - 4947'	6/14/94	by Western w/ 74,400# 16/30 w/25,000 gals 2% KCl gel. Flush w/ 4914 gal 2% KCl wtr. ATP-1800 psi, Max-2110#, ATR-30 bpm, Max-30.9 bpm, ISIP-1620 psi, 5min-1510, 10min-1450, 15min-1430 psi.
& 4950' - 4954'		
3985' - 3988'	6/16/94	by Western w/ 57,400# 16/30 w/ 15,750 gals 2% KCl gel. ATP-2000 psi, Max-2170, ATR-29.5 bpm, Max-31 bpm, ISIP-1800 psi, 5min-1550, 10min-1420, 15min-1410 psi.
& 3990' - 4000'		
1/25/06		Tubing leak. Update rod and tubing details.
10-19-07		Pump Change. Updated rod & tubing details.
02/26/10		Parted Rods. Updated rod & tubing details.
5/7/10	5394-5397'	Frac CPI sands as follows: Frac with 15000# 20-40 sand in 90 bbls Lightning 17 fluid.
5/7/10	4665-4670'	Frac C sands as follows: Frac with 8536# 20-40 sand in 55 bbls Lightning 17 fluid.
5/13/10		Convert to Injection well
5/17/10		MIT Completed -tbg detail updated

## PERFORATION RECORD

6/15/94	3985' - 3988'	4 JSPF	12 holes
6/15/94	3990' - 4000'	4 JSPF	40 holes
6/13/94	4939' - 4947'	4 JSPF	32 holes
6/13/94	4950' - 4954'	4 JSPF	16 holes
5/7/10	5394-5397'	3 JSPF	9 holes
5/7/10	4665-4670'	3 JSPF	15 holes

**NEWFIELD**

**Balcron Monument Federal 12-17-9-17**

1980' FNL & 660' FWL

SW/NW Section 17-T9S-R17E

Duchesne Co, Utah

API #43-013-31431; Lease #UTU-72106

WELL NAME: **BALCRON MONUMENT BUTTE FED #12-17**  
FIELD: Monument Butte (Beluga Unit)  
FEDERAL LEASE NO.: UIU - 72106  
LOCATION: SW NW Sec.17, T9S, R17E  
FOOTAGE: 1980' FNL, 660' FWL  
COUNTY/STATE: Duchesne County, Utah  
WORKING INTEREST: 0.91491728  
PRODUCING FORMATION: Green River  
COMPLETION DATE: 7/5/94  
INITIAL PRODUCTION: 70 BO  
OIL/GAS PURCHASER: AMOCO  
PRESENT PROD STATUS: PROD  
ELEVATIONS - GROUND: 5407.9' GL  
TOTAL DEPTH: 5650' KB

DATE : 11/9/95 vk  
API NO.: 43-013-31431

NET REVENUE INTEREST: 0.80471769 Oil  
0.73108274 Gas  
SPUD DATE: 5/31/94  
OIL GRAVITY: 34  
BHT:  
KB: 5417.9' (10' KB)  
PLUG BACK TD: 5615.65' KB

#### SURFACE CASING

STRING: 1  
CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 370' (9 jts)  
DEPTH LANDED: 380' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: By Western w/225 sxs "G" w/  
2% CCL & 1/4#/sx Celoflake.  
Cemented to surface.

#### TUBING RECORD

SIZE/GRADE/WT.: 2-7/8", J-55, 6.5#  
NO. OF JOINTS: 128 jts (3946.28')  
TUBING ANCHOR: 2-1/2" x 5-1/2" (2.35')  
NO. OF JOINTS: 33 jts (1016.44')  
SEATING NIPPLE: 2-7/8" x 1.10'  
PERFORATED SUB: 2 7/8" x 3.2'  
MUD ANCHOR: 2 7/8" x 27.43'  
TOTAL STRING LENGTH: 4996.80'  
SN LANDED AT: 4976.17' KB

#### SUCKER ROD RECORD

POLISHED ROD: 1-1/4" x 22' SM  
SUCKER RODS: 1 - 3/4" x 6' Pony  
198 - 3/4" x 25' Plain D-61  
1 - 3/4" x 4' Stabilizer

TOTAL ROD STRING LENGTH: 4976.5'

PUMP NUMBER: #1059 (TRICO)  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RWAC  
w/ PA plunger  
STROKE LENGTH: 82"  
PUMP SPEED, SPM: 4  
PUMPING UNIT SIZE: American 222-246-86  
PRIME MOVER: Ajax E-42

LOGS: Gamma Ray-Cement Bond Log;  
Dual-Laterolog; Spectral Density  
Dual Spaced Neutron.

#### PRODUCTION CASING

STRING: 1  
CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 5651.17' (137 jts)  
DEPTH LANDED: 5660.17' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: By Dowell w/115 sxs Hillift &  
tail w/170 sxs 10-0 RFL.

CEMENT TOP AT: 2900' KB

#### PERFORATION RECORD

3985' - 3988' KB	6/15/94	Y2	(3')	4 SPF
3990' - 4000' KB	6/15/94	Y2	(10')	4 SPF
4939' - 4947' KB	6/13/94	G3	(8')	4 SPF
4950' - 4954' KB	6/13/94	G3	(4')	4 SPF

#### ACID JOB / BREAKDOWN JOB

4947' - 4939' & 4954' - 4950'	6/14/94	2,016 gals 2% KCl wtr w/ 100 balls. Good ball action. ATP-2500 psi, Max-3050 psi. ATR-5.6 bpm, Max-9.1 bpm. ISIP-950 psi.
3985' - 3988' & 3990' - 4000'	6/16/94	2,982 gals 2%KCl wtr w/ 100 balls, Good ball action. ATP-1990 psi, Max-3490 psi. ATR-6 bpm, Max-6 bpm, ISIP-1100 psi, 5min-910 psi, 10min-840 psi, 15min-800 psi,

#### FRAC JOB

4939' - 4947' & 4950' - 4954'	6/14/94	by Western w/ 74,400# 16/30 w/25,000 gals 2% KCl gel. Flush w/ 4914 gal 2% KCl wtr. ATP-1800 psi, Max-2110#, ATR-30 bpm, Max-30.9 bpm, ISIP-1620 psi, 5min-1510, 10min-1450, 15min-1430 psi.
3985' - 3988' & 3990' - 4000'	6/16/94	by Western w/ 57,400# 16/30 w/ 15,750 gals 2% KCl gel. ATP-2000 psi, Max-2170, ATR-29.5 bpm, Max-31 bpm, ISIP-1800 psi, 5min-1550, 10min-1420, 15min-1410 psi.

Elev.GR - 5407.9' GL  
Elev.KB - 5417.9' KB (10' KB)

**WELLBORE DIAGRAM**

DATE : 11/9/95 vk

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 370' (9 jts)  
DEPTH LANDED: 380' KB  
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HOLE SIZE: 7-7/8"  
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tail w/170 sxs 10-0 RFL.  
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SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
NO. OF JOINTS: 128 jts (3946.28')  
TUBING ANCHOR: 2-1/2" x 5-1/2" (2.35')  
NO. OF JOINTS: 33 jts (1016.44')  
SEATING NIPPLE: 2-7/8" x 1.10'  
PERFORATED SUB: 2 7/8" x 3.2'  
MUD ANCHOR: 2 7/8" x 27.43'  
STRING LENGTH: 4996.80'  
SN LANDED AT: 4976.17' KB  
EOT : 5007' KB

**SUCKER RODS**

POLISHED ROD: 1-1/4" x 22' SM  
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PUMP SPEED, SPM: 4  
PUMPING UNIT: American 222-246-86  
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**FRAC JOB**

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3985' - 3988' & 3990' - 4000'	6/16/94	by Western w/ 57,400# 16/30 w/ 15,750 gals 2% KCl gel. ATP- 2000 psi, Max-2170, ATR-29.5 bpm, Max-31 bpm, ISIP-1800 psi, 5min-1550, 10min-1420, 15min-1410 psi.

TOC @ 2900' KB

**PERFORATION RECORD**

3985' - 3988' KB	6/15/94	Y2	(3')	4 SPF
3990' - 4000' KB	6/15/94	Y2	(10')	4 SPF
4939' - 4947' KB	6/13/94	G3	(8')	4 SPF
4950' - 4954' KB	6/13/94	G3	(4')	4 SPF

3985' - 3988'  
3990' - 4000'

4939' - 4947'  
4954' - 4950'

SN LANDED @ 4976' KB  
EOT LANDED @ 5007' KB

PBTD @ 5616' KB  
TD @ 5650' KB